

2020 Index

IEEE Transactions on Power Systems

Vol. 35

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2020, and items from previous years that were commented upon or corrected in 2020. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

AUTHOR INDEX

A

- Abdelaziz, M.M.A.**, see Hajebrahimi, A., *TPWRS Sept. 2020 3706-3718*
- Abdi-Khorsand, M.**, see Wang, Y., *TPWRS Jan. 2020 551-559*
- Abusorrah, A.**, see Zhou, Q., *TPWRS Jan. 2020 474-486*
- Abusorrah, A.**, see Zhou, Q., *TPWRS May 2020 2452-2462*
- Abusorrah, A.**, see Zhou, Q., *TPWRS July 2020 3004-3014*
- Abusorrah, A.**, see Zhou, Q., *TPWRS Sept. 2020 3847-3856*
- Abusorrah, A.**, see Zhou, Q., *TPWRS March 2020 1294-1304*
- Abusorrah, A.**, see Zhou, Q., *TPWRS March 2020 1389-1399*
- Acharya, S.**, see Mohandes, B., *TPWRS July 2020 2642-2657*
- Afshari, A.**, Karrari, M., Baghaee, H.R., and Gharehpetian, G.B., Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids; *TPWRS Sept. 2020 3774-3789*
- Agalgaonkar, A.P.**, see Majumder, S., *TPWRS March 2020 1231-1241*
- Agheli, A.**, see Hajipour, E., *TPWRS March 2020 909-919*
- Aghili, S.J.**, Saghafi, H., and Hajian-Hoseinabadi, H., Uncertainty Analysis Using Fuzzy Transformation Method: An Application in Power-Flow Studies; *TPWRS Jan. 2020 42-52*
- Ahmad, T.**, and Senroy, N., Power System Mode Metering in the Presence of Non-Gaussian Noise; *TPWRS Sept. 2020 4124-4126*
- Ahmad, T.**, and Senroy, N., Statistical Characterization of PMU Error for Robust WAMS Based Analytics; *TPWRS March 2020 920-928*
- Ahmad, T.**, and Senroy, N., An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise; *TPWRS March 2020 1642-1645*
- Ahmed, M.**, see Padmanabhan, N., *TPWRS Jan. 2020 215-226*
- Ai, Q.**, see He, X., *TPWRS May 2020 1846-1855*
- Ai, X.**, see Zhang, M., *TPWRS July 2020 3266-3269*
- Ajala, O.**, Dominguez-Garcia, A., Sauer, P., and Liberzon, D., A Library of Second-Order Models for Synchronous Machines; *TPWRS Nov. 2020 4803-4814*
- Ajjarapu, V.**, see Bharati, A.K., *TPWRS May 2020 2072-2081*
- Al Araifi, S.M.**, Moursi, M.S.E., and Djouadi, S.M., Individual Functions Method for Power System Transient Stability Assessment; *TPWRS March 2020 1264-1273*
- Al-Digs, A.**, and Chen, Y.C., Power System Loss Divider; *TPWRS July 2020 3286-3289*
- Al-Digs, A.**, see Dhople, S.V., *TPWRS Nov. 2020 4870-4879*
- Al-Durra, A.**, see Kirakosyan, A., *TPWRS Jan. 2020 140-151*
- Al-Ismail, F.S.**, Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation" *TPWRS Nov. 2020 4974*
- Al-Sumaiti, A.S.**, see Mohandes, B., *TPWRS July 2020 2642-2657*
- Al-Sumaiti, A.S.**, see Nguyen, H.T., *TPWRS Sept. 2020 3494-3505*
- Alabdulwahab, A.**, see Zhou, Q., *TPWRS Jan. 2020 474-486*
- Alabdulwahab, A.**, see Zhou, Q., *TPWRS May 2020 2452-2462*
- Alabdulwahab, A.**, see Zhou, Q., *TPWRS July 2020 3004-3014*
- Alabdulwahab, A.**, see Zhou, Q., *TPWRS Sept. 2020 3847-3856*
- Alabdulwahab, A.**, see Zhou, Q., *TPWRS March 2020 1294-1304*
- Alabdulwahab, A.**, see Zhou, Q., *TPWRS March 2020 1389-1399*
- Alexiadis, M.C.**, see Pompodakis, E.E., *TPWRS March 2020 1143-1155*
- Alguacil, N.**, see Arroyo, J.M., *TPWRS Nov. 2020 4964-4967*
- Alharbi, H.**, and Bhattacharya, K., Participation of Pumped Hydro Storage in Energy and Performance-Based Regulation Markets; *TPWRS Nov. 2020 4307-4323*
- Allahbakhshi, M.**, see Sharifinia, S., *TPWRS Jan. 2020 818-820*
- Almassalkhi, M.**, see Nazir, N., *TPWRS July 2020 2683-2692*
- Almassalkhi, M.**, see Espinosa, L.A.D., *TPWRS Sept. 2020 3660-3670*
- Alsafasfeh, Q.**, see Pourbabak, H., *TPWRS Sept. 2020 3506-3515*
- Alshehri, J.**, and Khalid, M., Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids" *TPWRS Nov. 2020 4972*
- Alshehri, K.**, Ndrilo, M., Bose, S., and Basar, T., Quantifying Market Efficiency Impacts of Aggregated Distributed Energy Resources; *TPWRS Sept. 2020 4067-4077*
- Altun, T.**, Madani, R., Yadav, A.P., Nasir, A., and Davoudi, A., Optimal Reconfiguration of DC Networks; *TPWRS Nov. 2020 4272-4284*
- Alvarez, C.**, Mancilla-David, F., Escalona, P., and Angulo, A., A Bienstock-Zuckerberg-Based Algorithm for Solving a Network-Flow Formulation of the Convex Hull Pricing Problem; *TPWRS May 2020 2108-2119*
- Amidan, B.G.**, see Pandey, S., *TPWRS Nov. 2020 4421-4431*
- Amini, S.**, see Golpira, H., *TPWRS Nov. 2020 4824-4835*
- Amjady, N.**, see Esmaili, M., *TPWRS Jan. 2020 584-593*
- Amjady, N.**, see Esfahani, M., *TPWRS Sept. 2020 3481-3493*
- Amjady, N.**, see Esmaili, M., *TPWRS Nov. 2020 4396-4407*
- Angeli, D.**, see Evans, M.P., *TPWRS Sept. 2020 4144*
- Angulo, A.**, see Alvarez, C., *TPWRS May 2020 2108-2119*
- Annaswamy, A.M.**, see Malekpour, A.R., *TPWRS March 2020 854-863*
- Arabshahi, P.**, see Elliott, R.T., *TPWRS March 2020 1446-1456*
- Aristidou, P.**, see Paturet, M., *TPWRS Sept. 2020 3448-3458*
- Arnold, D.**, see Schweitzer, E., *TPWRS May 2020 1758-1768*
- Arnold, D.**, see Dobbe, R., *TPWRS May 2020 1674-1683*
- Arroyo, J.M.**, Baringo, L., Baringo, A., Bolanos, R., Alguacil, N., and Cobos, N.G., On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning; *TPWRS Nov. 2020 4964-4967*
- Arroyo, J.M.**, see Saavedra, R., *TPWRS Nov. 2020 4408-4420*
- Ascari, L.B.**, see Bez, D.M., *TPWRS Nov. 2020 4432-4444*
- Asensio, M.**, see Pourakbari-Kasmaei, M., *TPWRS Jan. 2020 346-361*
- Ashouri-Zadeh, A.**, see Hosseini, S.A., *TPWRS May 2020 2037-2046*
- Atarodi, A.**, see Golpira, H., *TPWRS Nov. 2020 4824-4835*
- Ayoubzadeh, H.**, see Hajipour, E., *TPWRS March 2020 909-919*
- Azizi, S.**, Sun, M., Liu, G., and Terzija, V., Local Frequency-Based Estimation of the Rate of Change of Frequency of the Center of Inertia; *TPWRS Nov. 2020 4948-4951*
- Azizipناه-Abarghoee, R.**, Malekpour, M., Dragicevic, T., Blaabjerg, F., and Terzija, V., A Linear Inertial Response Emulation for Variable Speed Wind Turbines; *TPWRS March 2020 1198-1208*
- Azizipناه-Abarghoee, R.**, see Malekpour, M., *TPWRS March 2020 997-1008*
- Azman, S.K.**, Isbeih, Y.J., Moursi, M.S.E., and Elbassioni, K., A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability; *TPWRS Nov. 2020 4585-4598*

B

Ba, Y., see Liu, L., *TPWRS July 2020 2527-2536*

- Babaei, S.**, Jiang, R., and Zhao, C., Distributionally Robust Distribution Network Configuration Under Random Contingency; *TPWRS Sept. 2020* 3332-3341
- Backhaus, S.**, see Deka, D., *TPWRS May 2020* 1663-1673
- Backhaus, S.**, see Hashmi, M.U., *TPWRS July 2020* 2693-2703
- Badesa, L.**, Teng, F., and Strbac, G., Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems; *TPWRS Nov. 2020* 4459-4469
- Baghaee, H.R.**, see Afshari, A., *TPWRS Sept. 2020* 3774-3789
- Bagheri, B.**, see Esfahani, M., *TPWRS Sept. 2020* 3481-3493
- Bahirat, H.J.**, see Dewangan, L., *TPWRS July 2020* 2835-2846
- Bahrani, H.R.**, see Parizy, E.S., *TPWRS Sept. 2020* 3421-3432
- Bahrani, S.**, see Kim, H., *TPWRS Jan. 2020* 639-651
- Bahramirad, S.**, see Eskandarpour, R., *TPWRS Sept. 2020* 4135-4137
- Baldick, R.**, see Hua, B., *TPWRS May 2020* 2167-2175
- Baldick, R.**, see Garcia, M., *TPWRS March 2020* 1009-1022
- Bao, M.**, see Guo, L., *TPWRS May 2020* 2300-2312
- Barati, M.**, see Wu, Y., *TPWRS Jan. 2020* 3-12
- Barati, M.**, see Wu, Y., *TPWRS May 2020* 2487
- Baringo, A.**, see Arroyo, J.M., *TPWRS Nov. 2020* 4964-4967
- Baringo, L.**, see Arroyo, J.M., *TPWRS Nov. 2020* 4964-4967
- Barnes, M.**, see Fradley, J., *TPWRS July 2020* 2826-2834
- Barrows, C.**, Bloom, A., Ehlen, A., Ikaheimo, J., Jorgenson, J., Krishnamurthy, D., Lau, J., McBennett, B., O'Connell, M., Preston, E., Staid, A., Stephen, G., and Watson, J., The IEEE Reliability Test System: A Proposed 2019 Update; *TPWRS Jan. 2020* 119-127
- Basar, T.**, see Alshehri, K., *TPWRS Sept. 2020* 4067-4077
- Bassey, O.**, Butler-Purpy, K.L., and Chen, B., Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids; *TPWRS Jan. 2020* 202-214
- Bedawy, A.**, Yorino, N., Mahmoud, K., Zoka, Y., and Sasaki, Y., Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents; *TPWRS March 2020* 1023-1035
- Beiranvand, A.**, and Cuffe, P., A Topological Sorting Approach to Identify Coherent Cut-Sets Within Power Grids; *TPWRS Jan. 2020* 721-730
- Bell, K.**, see Bukhsh, W., *TPWRS Sept. 2020* 3552-3561
- Benetli, T.A.P.**, Penido, D.R.R., and de Araujo, L.R., A New Synchronous DG Model for Unbalanced Multiphase Power Flow Studies; *TPWRS Jan. 2020* 803-813
- Benidris, M.**, see Mitra, J., *TPWRS March 2020* 1422-1431
- Benth, F.E.**, see Kreicar, N., *TPWRS March 2020* 1085-1098
- Bento, M.E.C.**, Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties; *TPWRS Sept. 2020* 3918-3926
- Bertrand, G.**, and Papavasiliou, A., Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit; *TPWRS May 2020* 2339-2350
- Bevrani, H.**, see Golpira, H., *TPWRS Nov. 2020* 4824-4835
- Bevrani, H.**, see Khayat, Y., *TPWRS Nov. 2020* 4973
- Bez, D.M.**, Simoes Costa, A., Ascari, L.B., and Junior, E.Z., A Block Version of Orthogonal Rotations for Improving the Accuracy of Hybrid State Estimators; *TPWRS Nov. 2020* 4432-4444
- Bharati, A.K.**, and Ajarapu, V., Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment; *TPWRS May 2020* 2072-2081
- Bhasin, S.**, see Mir, A.S., *TPWRS March 2020* 1400-1410
- Bhattacharya, K.**, see Padmanabhan, N., *TPWRS Jan. 2020* 215-226
- Bhattacharya, K.**, see Alharbi, H., *TPWRS Nov. 2020* 4307-4323
- Bhattacharya, K.**, see Calero, I., *TPWRS Nov. 2020* 4734-4744
- Bhattarai, R.**, see Ghosh, S., *TPWRS July 2020* 3051-3064
- Bi, T.**, see Zhao, J., *TPWRS May 2020* 2443-2451
- Bialek, J.**, see Gorbunov, A., *TPWRS Jan. 2020* 53-62
- Bian, D.**, see Duan, J., *TPWRS Jan. 2020* 814-817
- Bie, Z.**, see Lin, C., *TPWRS July 2020* 2537-2548
- Bischi, A.**, see Gonzalez-Castellanos, A.J., *TPWRS Jan. 2020* 672-682
- Biskas, P.N.**, see Marneris, I.G., *TPWRS Jan. 2020* 293-303
- Biswas, R.S.**, see Mishra, C., *TPWRS March 2020* 1572-1583
- Bizzarri, F.**, and Brambilla, A., Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems; *TPWRS March 2020* 1284-1293
- Blaabjerg, F.**, see Cao, D., *TPWRS Sept. 2020* 4120-4123
- Blaabjerg, F.**, see Azizipanah-Abarghooee, R., *TPWRS March 2020* 1198-1208
- Bloom, A.**, see Barrows, C., *TPWRS Jan. 2020* 119-127
- Bo, R.**, see Wu, C., *TPWRS Sept. 2020* 3378-3387
- Bogodorova, T.**, Osipov, D., and Vanfretti, L., Automated Design of Realistic Contingencies for Big Data Generation; *TPWRS Nov. 2020* 4968-4971
- Bolanos, R.**, see Arroyo, J.M., *TPWRS Nov. 2020* 4964-4967
- Borghetti, A.**, see Lilla, S., *TPWRS March 2020* 1132-1142
- Boroujeni, S.T.**, see Eshkaftaki, A.A., *TPWRS May 2020* 2351-2361
- Bose, S.**, see Alshehri, K., *TPWRS Sept. 2020* 4067-4077
- Botterud, A.**, see Yang, J., *TPWRS Jan. 2020* 560-570
- Botterud, A.**, see Kwon, J., *TPWRS Jan. 2020* 773-781
- Botterud, A.**, see Park, B., *TPWRS Nov. 2020* 4324-4334
- Bottiau, J.**, Hubert, L., De Greve, Z., Vallee, F., and Toubeau, J., Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement; *TPWRS March 2020* 1218-1230
- Bracale, A.**, Caramia, P., De Falco, P., and Hong, T., Multivariate Quantile Regression for Short-Term Probabilistic Load Forecasting; *TPWRS Jan. 2020* 628-638
- Bragin, M.A.**, see Yan, B., *TPWRS Jan. 2020* 782-794
- Bragin, M.A.**, see Wan, W., *TPWRS Sept. 2020* 3857-3868
- Brahma, D.**, and Senroy, N., Sensitivity-Based Approach for Assessment of Dynamic Locational Grid Flexibility; *TPWRS Sept. 2020* 3470-3480
- Brambilla, A.**, see Bizzarri, F., *TPWRS March 2020* 1284-1293
- Brandao, D.J.**, and Tedeschi, E., Three-Dimensional Representation of Electrical Circuit Quantities; *TPWRS July 2020* 3258-3261
- Brbaklic, B.S.**, see Popovic, Z.N., *TPWRS Sept. 2020* 3895-3905
- Brown, W.E.**, and Moreno-Centeno, E., Transmission-Line Switching for Load Shed Prevention via an Accelerated Linear Programming Approximation of AC Power Flows; *TPWRS July 2020* 2575-2585
- Bruninx, K.**, Pandzic, H., Le Cadre, H., and Delarue, E., On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers; *TPWRS March 2020* 840-853
- Bu, F.**, Dehghanpour, K., Yuan, Y., Wang, Z., and Zhang, Y., A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation; *TPWRS July 2020* 3133-3144
- Bu, F.**, see Yuan, Y., *TPWRS Sept. 2020* 4026-4035
- Bu, F.**, see Dehghanpour, K., *TPWRS Sept. 2020* 3835-3846
- Bu, S.**, see Luo, J., *TPWRS Sept. 2020* 4046-4055
- Bukenberger, J.P.**, and Webster, M.D., Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning; *TPWRS March 2020* 1099-1108
- Bukhsh, W.**, Edmunds, C., and Bell, K., OATS: Optimisation and Analysis Toolbox for Power Systems; *TPWRS Sept. 2020* 3552-3561
- Bullo, F.**, see Purba, V., *TPWRS March 2020* 1520-1530
- Burt, G.M.**, see Syed, M.H., *TPWRS Nov. 2020* 4904-4907
- Busic, A.**, see Hashmi, M.U., *TPWRS July 2020* 2693-2703
- Butler-Purpy, K.L.**, see Bassey, O., *TPWRS Jan. 2020* 202-214
- Buzau, M.**, Tejedor-Aguilera, J., Cruz-Romero, P., and Gomez-Exposito, A., Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters; *TPWRS March 2020* 1254-1263
- Byeon, G.**, and Van Hentenryck, P., Unit Commitment With Gas Network Awareness; *TPWRS March 2020* 1327-1339
- Byrne, D.J.**, see Zarifakis, M., *TPWRS Jan. 2020* 795-802
- Byrne, R.H.**, see Wilches-Bernal, F., *TPWRS May 2020* 2024-2036

C

- Caerts, C.**, see Torbaghan, S.S., *TPWRS Jan. 2020* 98-108
- Cai, H.**, Ma, H., and Hill, D.J., A Data-Based Learning and Control Method for Long-Term Voltage Stability; *TPWRS July 2020* 3203-3212
- Cai, Y.**, see Zhao, M., *TPWRS May 2020* 2176-2189

- Calero, I.**, Canizares, C.A., and Bhattacharya, K., Implementation of Transient Stability Model of Compressed Air Energy Storage Systems; *TPWRS Nov. 2020 4734-4744*
- Callaway, D.**, see Dobbe, R., *TPWRS May 2020 1674-1683*
- Canas-Carreton, M.**, and Carrion, M., Generation Capacity Expansion Considering Reserve Provision by Wind Power Units; *TPWRS Nov. 2020 4564-4573*
- Canizares, C.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Canizares, C.A.**, see Farrokhbadi, M., *TPWRS Jan. 2020 13-29*
- Canizares, C.A.**, see Calero, I., *TPWRS Nov. 2020 4734-4744*
- Cao, D.**, Hu, W., Zhao, J., Huang, Q., Chen, Z., and Blaabjerg, F., A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters; *TPWRS Sept. 2020 4120-4123*
- Cao, S.**, Lin, N., and Dinavahi, V., Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware; *TPWRS March 2020 1539-1548*
- Cao, X.**, see Ma, Z., *TPWRS Sept. 2020 3800-3809*
- Cao, Y.**, see Tan, Y., *TPWRS May 2020 2475-2478*
- Cao, Y.**, Wei, W., Mei, S., Shafie-khah, M., and Catalao, J.P.S., Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs; *TPWRS Nov. 2020 4908-4911*
- Cao, Y.**, see Wang, W., *TPWRS Nov. 2020 4609-4621*
- Cao, Y.**, see Li, C., *TPWRS Nov. 2020 4924-4927*
- Cao, Z.**, Wan, C., Zhang, Z., Li, F., and Song, Y., Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting; *TPWRS May 2020 1881-1897*
- Cao, Z.**, see Zhao, C., *TPWRS May 2020 2467-2470*
- Caramia, P.**, see Bracale, A., *TPWRS Jan. 2020 628-638*
- Carrig, S.J.**, see Zarifakis, M., *TPWRS Jan. 2020 795-802*
- Carrion, M.**, see Canas-Carreton, M., *TPWRS Nov. 2020 4564-4573*
- Carvalho, P.M.S.**, see Roca, I.L., *TPWRS Jan. 2020 284-292*
- Catalao, J.P.S.**, see Gazafroudi, A.S., *TPWRS March 2020 1075-1084*
- Catalao, J.P.S.**, see Cao, Y., *TPWRS Nov. 2020 4908-4911*
- Centeno, E.**, see Tejada-Arango, D.A., *TPWRS May 2020 2012-2023*
- Centeno, V.A.**, see Mishra, C., *TPWRS March 2020 1572-1583*
- Chaffey, G.**, see Jahn, I., *TPWRS July 2020 2949-2958*
- Chakhchoukh, Y.**, Lei, H., and Johnson, B.K., Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation; *TPWRS March 2020 1188-1197*
- Chakrabarti, S.**, see Pande, P.W., *TPWRS Nov. 2020 4666-4677*
- Chan, K.W.**, see Lu, X., *TPWRS May 2020 2212-2221*
- Chanda, S.**, see Pandey, S., *TPWRS July 2020 2748-2758*
- Chao, P.**, see Li, W., *TPWRS March 2020 1606-1617*
- Chatterjee, K.**, see Gupta, Y., *TPWRS July 2020 3158-3169*
- Chatterjee, K.**, Ray Chaudhuri, N., and Stefopoulos, G., Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption; *TPWRS Nov. 2020 4723-4733*
- Chatzivasileiadis, S.**, see Thams, F., *TPWRS Jan. 2020 30-41*
- Chatzivasileiadis, S.**, see Tosatto, A., *TPWRS Jan. 2020 451-461*
- Chatzivasileiadis, S.**, see Venzke, A., *TPWRS Sept. 2020 4143*
- Chatzivasileiadis, S.**, see Venzke, A., *TPWRS Sept. 2020 4142*
- Chau, T.K.**, see Yu, S.S., *TPWRS July 2020 2670-2682*
- Chaudhuri, N.R.**, see Vennelaganti, S.G., *TPWRS Sept. 2020 3541-3551*
- Che, L.**, see Zhou, Q., *TPWRS March 2020 1294-1304*
- Chen, B.**, see Bassey, O., *TPWRS Jan. 2020 202-214*
- Chen, B.**, see Zhao, T., *TPWRS Sept. 2020 4127-4130*
- Chen, C.**, see Wang, W., *TPWRS May 2020 2483-2486*
- Chen, G.**, see Qiu, Y., *TPWRS Nov. 2020 4709-4722*
- Chen, H.**, see Marinovici, L.D., *TPWRS March 2020 864-872*
- Chen, H.**, see Zheng, X., *TPWRS March 2020 1364-1375*
- Chen, H.**, see Zheng, X., *TPWRS Nov. 2020 4940-4943*
- Chen, J.**, see Hao, F., *TPWRS July 2020 2726-2735*
- Chen, J.**, Liu, M., O'Donnell, T., and Milano, F., Impact of Current Transients on the Synchronization Stability Assessment of Grid-Feeding Converters; *TPWRS Sept. 2020 4131-4134*
- Chen, K.**, Zhang, Y., Wang, Q., Hu, J., Fan, H., and He, J., Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring; *TPWRS May 2020 2362-2373*
- Chen, L.**, see Zhou, X., *TPWRS May 2020 2047-2058*
- Chen, L.**, see Guo, Z., *TPWRS July 2020 3305-3307*
- Chen, Q.**, see Guo, H., *TPWRS May 2020 1898-1910*
- Chen, S.**, Conejo, A.J., Sioshansi, R., and Wei, Z., Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange; *TPWRS Jan. 2020 662-671*
- Chen, S.**, Conejo, A.J., Sioshansi, R., and Wei, Z., Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids; *TPWRS May 2020 1956-1966*
- Chen, S.**, see Zhou, Y., *TPWRS May 2020 2388-2398*
- Chen, S.**, see Zhou, Y., *TPWRS May 2020 2155-2166*
- Chen, S.**, Guo, Z., Yang, Z., Xu, Y., and Cheng, R.S., A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid; *TPWRS May 2020 2232-2244*
- Chen, S.**, Conejo, A.J., Sioshansi, R., and Wei, Z., Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets; *TPWRS July 2020 2736-2747*
- Chen, S.**, see Xu, D., *TPWRS Nov. 2020 4769-4780*
- Chen, T.**, see Liu, C., *TPWRS March 2020 1468-1478*
- Chen, X.**, Tang, J., and Li, W., Probabilistic Operational Reliability of Composite Power Systems Considering Multiple Meteorological Factors; *TPWRS Jan. 2020 85-97*
- Chen, X.**, see Wu, X., *TPWRS Jan. 2020 374-384*
- Chen, X.**, see Shi, M., *TPWRS May 2020 2268-2278*
- Chen, X.**, see Xu, Y., *TPWRS July 2020 3278-3281*
- Chen, X.**, see Xu, Y., *TPWRS March 2020 1109-1119*
- Chen, X.**, see Shen, W., *TPWRS Nov. 2020 4193-4205*
- Chen, X.**, see Xu, Y., *TPWRS Nov. 2020 4756-4768*
- Chen, Y.**, Wang, F., Ma, Y., and Yao, Y., A Distributed Framework for Solving and Benchmarking Security Constrained Unit Commitment With Warm Start; *TPWRS Jan. 2020 711-720*
- Chen, Y.**, see Liu, Y., *TPWRS May 2020 2200-2211*
- Chen, Y.**, see Tan, Y., *TPWRS May 2020 2475-2478*
- Chen, Y.**, see Zhang, Z., *TPWRS May 2020 1856-1867*
- Chen, Y.**, see Shi, M., *TPWRS May 2020 2268-2278*
- Chen, Y.**, see Hua, B., *TPWRS May 2020 2167-2175*
- Chen, Y.**, see Xie, R., *TPWRS July 2020 2658-2669*
- Chen, Y.**, see Ramyar, S., *TPWRS March 2020 898-908*
- Chen, Y.**, see Zheng, X., *TPWRS March 2020 1364-1375*
- Chen, Y.**, Mazhari, S.M., Chung, C.Y., Faried, S.O., and Pal, B.C., Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector; *TPWRS Nov. 2020 4632-4643*
- Chen, Y.**, see Yu, Y., *TPWRS Nov. 2020 4335-4346*
- Chen, Y.C.**, see Al-Digs, A., *TPWRS July 2020 3286-3289*
- Chen, Y.C.**, see Dhople, S.V., *TPWRS Nov. 2020 4870-4879*
- Chen, Y.C.**, see Nowak, S., *TPWRS Nov. 2020 4792-4802*
- Chen, Z.**, see Cao, D., *TPWRS Sept. 2020 4120-4123*
- Cheng, J.**, see Fathabad, A.M., *TPWRS Nov. 2020 4357-4368*
- Cheng, P.**, see Ma, J., *TPWRS Sept. 2020 3433-3447*
- Cheng, R.S.**, see Chen, S., *TPWRS May 2020 2232-2244*
- Cheng, S.**, see Peng, X., *TPWRS March 2020 962-974*
- Cherkaoui, R.**, see Sekhavatmanesh, H., *TPWRS Sept. 2020 3810-3824*
- Chertkov, M.**, see Deka, D., *TPWRS May 2020 1663-1673*
- Chevalier, P.**, see Mou, Y., *TPWRS July 2020 2493-2505*
- Chevalier, S.**, Vorobev, P., and Turitsyn, K., A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods; *TPWRS Sept. 2020 3588-3602*
- Chevalier, S.C.**, see Wu, D., *TPWRS July 2020 2915-2925*
- Chiang, H.**, see Owusu-Mireku, R., *TPWRS May 2020 1946-1955*
- Chiang, H.**, see Wang, T., *TPWRS July 2020 2506-2515*
- Chiang, H.**, see Wang, L., *TPWRS March 2020 1489-1498*
- Chitsazan, M.A.**, Fadali, M.S., and Trzynadlowski, A.M., State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value; *TPWRS Jan. 2020 238-248*

- Choi, H.**, see Ryu, S., *TPWRS March 2020 1048-1060*
- Chong, F.T.**, see Eskandarpour, R., *TPWRS Sept. 2020 4135-4137*
- Choopani, M.**, Hosseinian, S.H., and Vahidi, B., New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia; *TPWRS Jan. 2020 527-538*
- Chouzenoux, E.**, see Sharma, S., *TPWRS Nov. 2020 4916-4919*
- Chow, J.H.**, see Hao, Y., *TPWRS March 2020 1166-1177*
- Chow, J.H.**, see Osipov, D., *TPWRS Nov. 2020 4554-4563*
- Chu, L.**, see He, X., *TPWRS May 2020 1846-1855*
- Chu, L.**, see Yang, H., *TPWRS Sept. 2020 3529-3540*
- Chu, Z.**, Markovic, U., Hug, G., and Teng, F., Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines; *TPWRS Sept. 2020 4056-4066*
- Chung, C.Y.**, see Luo, J., *TPWRS Sept. 2020 4046-4055*
- Chung, C.Y.**, see Liu, W., *TPWRS March 2020 1432-1445*
- Chung, C.Y.**, see Khorramdel, B., *TPWRS March 2020 873-886*
- Chung, C.Y.**, see Xu, D., *TPWRS Nov. 2020 4769-4780*
- Chung, C.Y.**, see Chen, Y., *TPWRS Nov. 2020 4632-4643*
- Chung, C.Y.**, see Esmaili, M., *TPWRS Nov. 2020 4396-4407*
- Cicilio, P.**, and Cotilla-Sanchez, E., Evaluating Measurement-Based Dynamic Load Modeling Techniques and Metrics; *TPWRS May 2020 1805-1811*
- Ciufo, P.P.**, see Majumder, S., *TPWRS March 2020 1231-1241*
- Cobos, N.G.**, see Arroyo, J.M., *TPWRS Nov. 2020 4964-4967*
- Coffey, W.T.**, see Zarifakis, M., *TPWRS Jan. 2020 795-802*
- Conejo, A.J.**, see Chen, S., *TPWRS Jan. 2020 662-671*
- Conejo, A.J.**, see Esmaili, M., *TPWRS Jan. 2020 584-593*
- Conejo, A.J.**, see Chen, S., *TPWRS May 2020 1956-1966*
- Conejo, A.J.**, see Wu, X., *TPWRS May 2020 1936-1945*
- Conejo, A.J.**, see Chen, S., *TPWRS July 2020 2736-2747*
- Conejo, A.J.**, see Esmaili, M., *TPWRS Nov. 2020 4396-4407*
- Contreras, J.**, see Pourakbari-Kasmaei, M., *TPWRS Jan. 2020 346-361*
- Corchado, J.M.**, see Gazafroudi, A.S., *TPWRS March 2020 1075-1084*
- Cordeiro, A.**, and Pires, V.F., A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems; *TPWRS May 2020 2144-2154*
- Costa Alberto, L.F.**, see Neves, L.S., *TPWRS Sept. 2020 3885-3894*
- Cotilla-Sanchez, E.**, see Cicilio, P., *TPWRS May 2020 1805-1811*
- Cruz-Romero, P.**, see Buzau, M., *TPWRS March 2020 1254-1263*
- Cuffe, P.**, see Beiranvand, A., *TPWRS Jan. 2020 721-730*
- Cui, X.**, see Liu, S., *TPWRS March 2020 1653-1656*
- Cui, X.**, see Yun, Z., *TPWRS Nov. 2020 4689-4698*
- Cutululis, N.A.**, see Perez-Rua, J., *TPWRS May 2020 2256-2267*
- D**
- D'hulst, R.**, see Torbaghan, S.S., *TPWRS Jan. 2020 98-108*
- da Silva Neto, C.A.**, and Schilling, M.T., Power System Security Taxonomy Introducing Two New Approaches; *TPWRS Jan. 2020 487-495*
- Dabbaghjamanesh, M.**, Kavousi-Fard, A., and Dong, Z.Y., A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids; *TPWRS July 2020 2847-2862*
- Dai, Z.**, and Tate, J.E., External System Generator Outage Localization Based on Tie-Line Synchrophasor Measurements; *TPWRS March 2020 1597-1605*
- Daniel, L.**, see Grusso, G., *TPWRS Jan. 2020 618-627*
- Darvishi, A.**, see Rimorov, D., *TPWRS Sept. 2020 3825-3834*
- Das, K.**, see Perez-Rua, J., *TPWRS May 2020 2256-2267*
- Dassios, I.**, see Tzounas, G., *TPWRS Jan. 2020 742-750*
- Dassios, I.**, see Tzounas, G., *TPWRS Nov. 2020 4622-4631*
- Davis, K.**, see Klauber, C., *TPWRS Nov. 2020 4847-4855*
- Davoudi, A.**, see Altun, T., *TPWRS Nov. 2020 4272-4284*
- de Araujo, L.R.**, see Beneteli, T.A.P., *TPWRS Jan. 2020 803-813*
- De Falco, P.**, see Bracale, A., *TPWRS Jan. 2020 628-638*
- De Greve, Z.**, see Bottieau, J., *TPWRS March 2020 1218-1230*
- de Leon, F.**, see Iravani, A., *TPWRS July 2020 2981-2992*
- Deblecker, O.**, see Thomas, D., *TPWRS July 2020 3087-3099*
- Dehghanian, P.**, see Lejeune, M.A., *TPWRS Nov. 2020 4932-4935*
- Dehghanpour, K.**, see Bu, F., *TPWRS July 2020 3133-3144*
- Dehghanpour, K.**, see Yuan, Y., *TPWRS Sept. 2020 4026-4035*
- Dehghanpour, K.**, Yuan, Y., Bu, F., and Wang, Z., Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids; *TPWRS Sept. 2020 3835-3846*
- Deka, D.**, Chertkov, M., and Backhaus, S., Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids; *TPWRS May 2020 1663-1673*
- Deka, D.**, see Hashmi, M.U., *TPWRS July 2020 2693-2703*
- Deka, D.**, see Hassan, A., *TPWRS Nov. 2020 4678-4688*
- Delarue, E.**, see Bruninx, K., *TPWRS March 2020 840-853*
- Delikaraoglou, S.**, see Paturet, M., *TPWRS Sept. 2020 3448-3458*
- Deng, L.**, see Yu, J., *TPWRS Nov. 2020 4912-4915*
- Deng, X.**, see Wang, W., *TPWRS May 2020 2483-2486*
- Deng, Z.**, Rotaru, M.D., and Sykulski, J.K., Kriging Assisted Surrogate Evolutionary Computation to Solve Optimal Power Flow Problems; *TPWRS March 2020 831-839*
- Derviskadic, A.**, Frigo, G., and Paolone, M., Beyond Phasors: Modeling of Power System Signals Using the Hilbert Transform; *TPWRS July 2020 2971-2980*
- Derviskadic, A.**, see Zuo, Y., *TPWRS March 2020 1305-1316*
- Dewangan, L.**, and Bahirat, H.J., Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid; *TPWRS July 2020 2835-2846*
- Dhople, S.V.**, see Purba, V., *TPWRS March 2020 1520-1530*
- Dhople, S.V.**, Chen, Y.C., Al-Digs, A., and Dominguez-Garcia, A.D., Reexamining the Distributed Slack Bus; *TPWRS Nov. 2020 4870-4879*
- Diao, R.**, see Duan, J., *TPWRS Jan. 2020 814-817*
- Diao, R.**, see Wang, S., *TPWRS Nov. 2020 4644-4654*
- Dinavahi, V.**, see Wang, Y., *TPWRS Jan. 2020 691-702*
- Dinavahi, V.**, see Cao, S., *TPWRS March 2020 1539-1548*
- Ding, L.**, see Qiu, Y., *TPWRS Nov. 2020 4709-4722*
- Ding, T.**, see Zeng, Z., *TPWRS Jan. 2020 571-583*
- Ding, Y.**, see Hui, H., *TPWRS Jan. 2020 332-345*
- Ding, Y.**, see Guo, L., *TPWRS May 2020 2300-2312*
- Ding, Y.**, see Zhang, Z., *TPWRS May 2020 2059-2071*
- Ding, Y.**, see Liu, S., *TPWRS Sept. 2020 3574-3587*
- Ding, Y.**, see Liu, S., *TPWRS March 2020 1653-1656*
- Ding, Z.**, see Liang, Y., *TPWRS Nov. 2020 4180-4192*
- Djouadi, S.M.**, see Al Araifi, S.M., *TPWRS March 2020 1264-1273*
- Dobakhshari, A.S.**, see Hosseini, S.A., *TPWRS May 2020 2037-2046*
- Dobbe, R.**, van Westering, W., Liu, S., Arnold, D., Callaway, D., and Tomlin, C., Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing; *TPWRS May 2020 1674-1683*
- Dobson, I.**, see Zhou, K., *TPWRS July 2020 3224-3235*
- Doenges, K.**, Egado, I., Sigrist, L., Lobato Miguelez, E., and Rouco, L., Improving AGC Performance in Power Systems With Regulation Response Accuracy Margins Using Battery Energy Storage System (BESS); *TPWRS July 2020 2816-2825*
- Dominguez-Garcia, A.**, see Ajala, O., *TPWRS Nov. 2020 4803-4814*
- Dominguez-Garcia, A.D.**, see Xu, H., *TPWRS May 2020 1990-2001*
- Dominguez-Garcia, A.D.**, see Xu, H., *TPWRS May 2020 2133-2143*
- Dominguez-Garcia, A.D.**, see Dhople, S.V., *TPWRS Nov. 2020 4870-4879*
- Dong, S.**, see Tang, K., *TPWRS Nov. 2020 4836-4846*
- Dong, W.**, see Du, W., *TPWRS May 2020 2093-2107*
- Dong, X.**, see Zhou, S., *TPWRS Nov. 2020 4232-4250*
- Dong, Z.**, see Zeng, Z., *TPWRS Jan. 2020 571-583*
- Dong, Z.Y.**, see Lu, S., *TPWRS May 2020 2374-2387*
- Dong, Z.Y.**, see Jia, Y., *TPWRS May 2020 2245-2255*
- Dong, Z.Y.**, see Dabbaghjamanesh, M., *TPWRS July 2020 2847-2862*
- Dong, Z.Y.**, see Karunanayake, C., *TPWRS March 2020 1156-1165*
- Dong, Z.Y.**, see Li, Y., *TPWRS March 2020 1657-1660*
- Dong, Z.Y.**, see Shen, W., *TPWRS Nov. 2020 4193-4205*
- Dong, Z.Y.**, see Liu, B., *TPWRS Nov. 2020 4856-4869*
- Doolla, S.**, see Gupta, Y., *TPWRS July 2020 3158-3169*
- Doshi, N.P.**, Discussion on "Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach" *TPWRS Sept. 2020 4140*

- Dosiek, L.**, The Effects of Forced Oscillation Frequency Estimation Error on the LS-ARMA+S Mode Meter; *TPWRS March 2020 1650-1652*
- Doukas, H.**, see Mohandes, B., *TPWRS July 2020 2642-2657*
- Dragicevic, T.**, see Azizipanah-Abarghooee, R., *TPWRS March 2020 1198-1208*
- Du, E.**, see Hou, Q., *TPWRS Jan. 2020 731-741*
- Du, E.**, see Zhuo, Z., *TPWRS March 2020 1061-1074*
- Du, E.**, see Zhang, Z., *TPWRS Nov. 2020 4383-4395*
- Du, W.**, Dong, W., and Wang, H.F., Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs; *TPWRS May 2020 2093-2107*
- Du, W.**, see Nandanoori, S.P., *TPWRS Sept. 2020 3981-3990*
- Du, Y.**, Li, F., Zheng, T., and Li, J., Fast Cascading Outage Screening Based on Deep Convolutional Neural Network and Depth-First Search; *TPWRS July 2020 2704-2715*
- Duan, C.**, see Li, C., *TPWRS Nov. 2020 4924-4927*
- Duan, D.**, see Li, M., *TPWRS Jan. 2020 594-604*
- Duan, D.**, see Li, M., *TPWRS July 2020 3316*
- Duan, J.**, Shi, D., Diao, R., Li, H., Wang, Z., Zhang, B., Bian, D., and Yi, Z., Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations; *TPWRS Jan. 2020 814-817*
- Duan, J.**, see Wang, S., *TPWRS Nov. 2020 4644-4654*
- Duan, X.**, see Li, Y., *TPWRS May 2020 1741-1757*
- Dubey, A.**, see Gandluru, A., *TPWRS Jan. 2020 605-617*
- Dumnic, B.**, see Strezoski, L.V., *TPWRS March 2020 1209-1217*
- Dvorkin, Y.**, see Mieth, R., *TPWRS May 2020 2325-2338*
- Dvorkin, Y.**, A Chance-Constrained Stochastic Electricity Market; *TPWRS July 2020 2993-3003*
- Dvorkin, Y.**, see Kim, J., *TPWRS July 2020 2716-2725*
- Dvorkin, Y.**, see Hassan, A., *TPWRS Nov. 2020 4678-4688*
- Dymarsky, A.**, see Gorbunov, A., *TPWRS Jan. 2020 53-62*

E

- Edmunds, C.**, see Bukhsh, W., *TPWRS Sept. 2020 3552-3561*
- Edwards, C.**, see Schipper, J., *TPWRS Sept. 2020 3953-3960*
- Edwards, C.**, see Schipper, J., *TPWRS Sept. 2020 3961-3969*
- Egerstedt, M.**, see Nazari, M.H., *TPWRS July 2020 3192-3202*
- Egerstedt, M.**, see Nazari, M.H., *TPWRS March 2020 1317-1326*
- Egido, I.**, see Doenges, K., *TPWRS July 2020 2816-2825*
- Ehlen, A.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Ehsan, M.**, see Hajipour, E., *TPWRS March 2020 909-919*
- El Moursi, M.S.**, see Ghosh, S., *TPWRS July 2020 3100-3113*
- El Moursi, M.S.**, see Nguyen, H.T., *TPWRS Sept. 2020 3494-3505*
- EL-Fouly, T.H.M.**, see Wahbah, M., *TPWRS Jan. 2020 652-661*
- El-Saadany, E.F.**, see Kirakosyan, A., *TPWRS Jan. 2020 140-151*
- El-Saadany, E.F.**, see Ghosh, S., *TPWRS May 2020 1911-1922*
- El-Saadany, E.F.**, see Ghosh, S., *TPWRS July 2020 3100-3113*
- El-Saadany, E.F.**, see Ghosh, S., *TPWRS July 2020 3051-3064*
- Elbassioni, K.**, see Azman, S.K., *TPWRS Nov. 2020 4585-4598*
- Eldridge, B.**, O'Neill, R., and Hobbs, B.F., Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds; *TPWRS May 2020 1684-1694*
- Elizondo, M.A.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Elliott, R.T.**, Arabshahi, P., and Kirschen, D.S., A Generalized PSS Architecture for Balancing Transient and Small-Signal Response; *TPWRS March 2020 1446-1456*
- Elvira, V.**, see Sharma, S., *TPWRS Nov. 2020 4916-4919*
- Eriksson, R.**, see Thams, F., *TPWRS Jan. 2020 30-41*
- Escalona, P.**, see Alvarez, C., *TPWRS May 2020 2108-2119*
- Escobar-Mejia, A.**, see Gil-Gonzalez, W.J., *TPWRS May 2020 2002-2011*
- Esfahani, M.**, Amjadi, N., Bagheri, B., and Hatziargyriou, N.D., Robust Resilience-Oriented Operation of Active Distribution Networks Considering Windstorms; *TPWRS Sept. 2020 3481-3493*
- Esfahani, P.M.**, see Pan, K., *TPWRS March 2020 1584-1596*
- Eshkaftaki, A.A.**, Rabiee, A., Kargar, A., and Boroujeni, S.T., An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines; *TPWRS May 2020 2351-2361*

- Eskandarpour, R.**, Gokhale, P., Khodaei, A., Chong, F.T., Passo, A., and Bahramirad, S., Quantum Computing for Enhancing Grid Security; *TPWRS Sept. 2020 4135-4137*
- Esmaili, M.**, Ghamsari-Yazdel, M., Amjadi, N., and Conejo, A.J., Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines; *TPWRS Jan. 2020 584-593*
- Esmaili, M.**, Ghamsari-Yazdel, M., Amjadi, N., Chung, C.Y., and Conejo, A.J., Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach; *TPWRS Nov. 2020 4396-4407*
- Espinosa, A.N.**, see Lagos, T., *TPWRS March 2020 1411-1421*
- Espinosa, L.A.D.**, and Almassalkhi, M., A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources; *TPWRS Sept. 2020 3660-3670*
- Estanqueiro, A.**, see Silva, A.R., *TPWRS March 2020 1274-1283*
- Etemadi, A.H.**, see Watson, E.B., *TPWRS March 2020 929-937*
- Evans, M.P.**, Tindemans, S.H., and Angeli, D., Correction to "Minimizing Unserved Energy Using Heterogeneous Storage Units" [Sep 19 3647-3656]; *TPWRS Sept. 2020 4144*

F

- Fadali, M.S.**, see Chitsazan, M.A., *TPWRS Jan. 2020 238-248*
- Fan, H.**, see Chen, K., *TPWRS May 2020 2362-2373*
- Fan, H.**, see Liu, W., *TPWRS July 2020 3078-3086*
- Fan, L.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Fan, L.**, see Wu, X., *TPWRS Jan. 2020 374-384*
- Fan, L.**, see Li, Y., *TPWRS Jan. 2020 109-118*
- Fan, L.**, and Miao, Z., Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?; *TPWRS July 2020 3312-3315*
- Fan, R.**, see Wang, S., *TPWRS Nov. 2020 4518-4527*
- Fang, J.**, see Zhang, M., *TPWRS July 2020 3266-3269*
- Fang, L.**, Ma, K., and Zhang, X., A Statistical Approach to Guide Phase Swapping for Data-Scarce Low Voltage Networks; *TPWRS Jan. 2020 751-761*
- Fang, L.**, see Kong, W., *TPWRS July 2020 3170-3180*
- Fang, S.**, Xu, Y., Wen, S., Zhao, T., Wang, H., and Liu, L., Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids; *TPWRS May 2020 1783-1795*
- Fang, X.**, Yang, Z., Yu, J., Lai, X., and Xia, Q., Electricity Pricing Under Constraint Violations; *TPWRS July 2020 2794-2803*
- Fang, X.**, Sedzro, K.S., Yuan, H., Ye, H., and Hodge, B., Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties; *TPWRS July 2020 2561-2574*
- Fardanesh, B.**, see Rimorov, D., *TPWRS Sept. 2020 3825-3834*
- Faried, S.O.**, see Chen, Y., *TPWRS Nov. 2020 4632-4643*
- Farrokhhabadi, M.**, Canizares, C.A., Simpson-Porco, J.W., Nasr, E., Fan, L., Mendoza-Araya, P.A., Tonkoski, R., Tamrakar, U., Hatziargyriou, N., Lagos, D., Wies, R.W., Paolone, M., Liserre, M., Meegahapola, L., Kaban, M., Hajimiragha, A.H., Peralta, D., Elizondo, M.A., Schneider, K.P., Tuffner, F.K., and Reilly, J., Microgrid Stability Definitions, Analysis, and Examples; *TPWRS Jan. 2020 13-29*
- Farzin, N.**, see Hajipour, E., *TPWRS March 2020 909-919*
- Fathabad, A.M.**, Cheng, J., Pan, K., and Qiu, F., Data-Driven Planning for Renewable Distributed Generation Integration; *TPWRS Nov. 2020 4357-4368*
- Feng, C.**, Wen, F., You, S., Li, Z., Shahnia, F., and Shahidehpour, M., Coalitional Game-Based Transactive Energy Management in Local Energy Communities; *TPWRS May 2020 1729-1740*
- Feng, F.**, and Zhang, P., Enhanced Microgrid Power Flow Incorporating Hierarchical Control; *TPWRS May 2020 2463-2466*
- Feng, F.**, and Zhang, P., Implicit Z_{bus} Gauss Algorithm Revisited; *TPWRS Sept. 2020 4108-4111*
- Feng, S.**, see Wahbah, M., *TPWRS Jan. 2020 652-661*
- Fernandez, A.**, see Massafiero, P., *TPWRS Jan. 2020 703-710*
- Fernando, T.**, see Yu, S.S., *TPWRS July 2020 2670-2682*
- Ferreira, T.S.D.**, Trindade, F.C.L., and Vieira, J.C.M., Load Flow-Based Method for Nontechnical Electrical Loss Detection and Location in Distribution Systems Using Smart Meters; *TPWRS Sept. 2020 3671-3681*

Fioretto, F., see Mak, T.W.K., *TPWRS March 2020 1627-1637*
Fletcher, J.E., see Mahamedi, B., *TPWRS July 2020 2876-2887*
Fleten, S., see Risanger, S., *TPWRS Nov. 2020 4159-4166*
Fosso, O.B., see Gil-Gonzalez, W.J., *TPWRS May 2020 2002-2011*
Fotuhi-Firuzabad, M., see Sharifinia, S., *TPWRS Jan. 2020 818-820*
Fradley, J., Preece, R., and Barnes, M., The Influence of Network Factors on Frequency Stability; *TPWRS July 2020 2826-2834*
Francois, B., see Golpira, H., *TPWRS Nov. 2020 4824-4835*
Freris, N.M., see Huang, T., *TPWRS Sept. 2020 3927-3939*
Fridman, E., see Saxena, S., *TPWRS Nov. 2020 4484-4494*
Frigo, G., see Derviskadic, A., *TPWRS July 2020 2971-2980*
Frigo, G., see Zuo, Y., *TPWRS March 2020 1305-1316*

G

Gabriel, S.A., see Risanger, S., *TPWRS Nov. 2020 4159-4166*
Gaikwad, A., see Mitra, P., *TPWRS July 2020 2631-2641*
Ganda, F., see Ponciroli, R., *TPWRS Sept. 2020 4005-4013*
Gandluru, A., Poudel, S., and Dubey, A., Joint Estimation of Operational Topology and Outages for Unbalanced Power Distribution Systems; *TPWRS Jan. 2020 605-617*
Gao, H., see Zhang, X., *TPWRS July 2020 2959-2970*
Gao, H., see Liu, T., *TPWRS Sept. 2020 4088-4099*
Gao, H., see Guo, Y., *TPWRS Nov. 2020 4505-4517*
Gao, H., see Ruan, H., *TPWRS Nov. 2020 4220-4231*
Gao, W., and Gorinevsky, D., Probabilistic Modeling for Optimization of Resource Mix With Variable Generation and Storage; *TPWRS Sept. 2020 4036-4045*
Garces, A., see Gil-Gonzalez, W.J., *TPWRS May 2020 2002-2011*
Garcia, M., and Baldick, R., Approximating Economic Dispatch by Linearizing Transmission Losses; *TPWRS March 2020 1009-1022*
Gautam, P., Piya, P., and Karki, R., Development and Integration of Momentary Event Models in Active Distribution System Reliability Assessment; *TPWRS July 2020 3236-3246*
Gavriliadis, P., see Khorramdel, B., *TPWRS March 2020 873-886*
Gazafroudi, A.S., Shafie-Khah, M., Prieto-Castrillo, F., Corchado, J.M., and Catalao, J.P.S., Monopolistic and Game-Based Approaches to Transact Energy Flexibility; *TPWRS March 2020 1075-1084*
Geng, G., see Liu, W., *TPWRS July 2020 3078-3086*
Geth, F., see Torbaghan, S.S., *TPWRS Jan. 2020 98-108*
Ghamsari-Yazdel, M., see Esmaili, M., *TPWRS Jan. 2020 584-593*
Ghamsari-Yazdel, M., see Esmaili, M., *TPWRS Nov. 2020 4396-4407*
Ghazehpetian, G.B., see Afshari, A., *TPWRS Sept. 2020 3774-3789*
Ghosh, A.P., see Zhou, K., *TPWRS July 2020 3224-3235*
Ghosh, S., Isbeih, Y.J., Moursi, M.S.E., and El-Saadany, E.F., Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks; *TPWRS May 2020 1911-1922*
Ghosh, S., El Moursi, M.S., El-Saadany, E.F., and Hosani, K.A., Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement; *TPWRS July 2020 3100-3113*
Ghosh, S., Isbeih, Y.J., Bhattarai, R., Moursi, M.S.E., El-Saadany, E.F., and Kamalasadani, S., A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation; *TPWRS July 2020 3051-3064*
Gibbard, M.J., Zhang, Q., and Vowles, D.J., Electric Power PSS With Ramp-Rejection; *TPWRS Nov. 2020 4495-4504*
Gibescu, M., see Stappers, B., *TPWRS July 2020 3040-3050*
Gil-Gonzalez, W.J., Garces, A., Fosso, O.B., and Escobar-Mejia, A., Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank; *TPWRS May 2020 2002-2011*
Ginter, A., see Yamashita, K., *TPWRS Nov. 2020 4206-4219*
Glovic, M., see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
Goel, L., see Guo, L., *TPWRS May 2020 2300-2312*
Gokhale, P., see Eskandarpour, R., *TPWRS Sept. 2020 4135-4137*
Golpira, H., Atarodi, A., Amini, S., Messina, A.R., Francois, B., and Bevrani, H., Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View; *TPWRS Nov. 2020 4824-4835*

Gomez-Exposito, A., see Gonzalez-Cagigal, M.A., *TPWRS May 2020 1796-1804*
Gomez-Exposito, A., see Buzau, M., *TPWRS March 2020 1254-1263*
Gomis-Bellmunt, O., see Kwon, D., *TPWRS Nov. 2020 4539-4553*
Gong, Q., see Liu, W., *TPWRS Nov. 2020 4167-4179*
Gonzalez-Cagigal, M.A., Rosendo-Macias, J.A., and Gomez-Exposito, A., Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters; *TPWRS May 2020 1796-1804*
Gonzalez-Castellanos, A.J., Pozo, D., and Bischi, A., Non-Ideal Linear Operation Model for Li-Ion Batteries; *TPWRS Jan. 2020 672-682*
Gorbunov, A., Dymarsky, A., and Bialek, J., Estimation of Parameters of a Dynamic Generator Model From Modal PMU Measurements; *TPWRS Jan. 2020 53-62*
Gorinevsky, D., see Gao, W., *TPWRS Sept. 2020 4036-4045*
Grijalva, S., see Mehrabankhomartash, M., *TPWRS Jan. 2020 177-187*
Grijalva, S., see Nazari, M.H., *TPWRS July 2020 3192-3202*
Grijalva, S., see Nazari, M.H., *TPWRS March 2020 1317-1326*
Gruosso, G., Netto, R.S., Daniel, L., and Maffezzoni, P., Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method; *TPWRS Jan. 2020 618-627*
Gu, C., see Yang, X., *TPWRS Sept. 2020 3342-3352*
Gu, C., see Zhao, P., *TPWRS Sept. 2020 4014-4025*
Gu, H., Yan, R., Saha, T.K., Muljadi, E., Tan, J., and Zhang, Y., Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief; *TPWRS July 2020 3065-3077*
Gu, W., see Lu, S., *TPWRS May 2020 2374-2387*
Gu, W., see Wu, C., *TPWRS Sept. 2020 3378-3387*
Gu, W., see Qiu, H., *TPWRS Sept. 2020 3636-3647*
Gu, Z., see Xu, Y., *TPWRS July 2020 2783-2793*
Guan, X., see Li, X., *TPWRS Jan. 2020 261-272*
Guan, X., see Lan, Y., *TPWRS May 2020 2412-2421*
Guan, Y., see Yu, Y., *TPWRS Nov. 2020 4335-4346*
Gubina, A.F., see Krecar, N., *TPWRS March 2020 1085-1098*
Guerrero, J.M., see Khayat, Y., *TPWRS Nov. 2020 4973*
Guillo-Sansano, E., see Syed, M.H., *TPWRS Nov. 2020 4904-4907*
Guo, C., see Liang, Y., *TPWRS Nov. 2020 4180-4192*
Guo, H., Chen, Q., Xia, Q., and Kang, C., Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets; *TPWRS May 2020 1898-1910*
Guo, J., see Yu, S.S., *TPWRS July 2020 2670-2682*
Guo, J., see Shang, Y., *TPWRS Sept. 2020 3940-3952*
Guo, J., see Zhang, G., *TPWRS March 2020 1351-1363*
Guo, L., Ding, Y., Bao, M., Shao, C., Wang, P., and Goel, L., Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System; *TPWRS May 2020 2300-2312*
Guo, Y., Gao, H., and Wang, Z., Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent; *TPWRS Nov. 2020 4505-4517*
Guo, Z., see Chen, S., *TPWRS May 2020 2232-2244*
Guo, Z., Wei, W., Chen, L., and Mei, S., Fast Screen of Redundant Transmission Constraints in Line Contingency-Constrained Dispatch; *TPWRS July 2020 3305-3307*
Gupta, Y., Chatterjee, K., and Doolla, S., A Simple Control Scheme for Improving Reactive Power Sharing in Islanded Microgrid; *TPWRS July 2020 3158-3169*
Guttromson, R., see Trudnowski, D.J., *TPWRS Nov. 2020 4699-4708*

H

Haddadi, A., see Jahromi, A.A., *TPWRS Jan. 2020 440-450*
Hajebrahimi, A., Kamwa, I., Abdelaziz, M.M.A., and Moeini, A., Scenario-Wise Distributionally Robust Optimization for Collaborative Intermittent Resources and Electric Vehicle Aggregator Bidding Strategy; *TPWRS Sept. 2020 3706-3718*
Hajian-Hoseinabadi, H., see Aghili, S.J., *TPWRS Jan. 2020 42-52*
Hajimiragha, A.H., see Farrokhabadi, M., *TPWRS Jan. 2020 13-29*

- Hajipour, E.**, Saber, H., Farzin, N., Karimi, M.R., Hashemi, S.M., Agheli, A., Ayoubzadeh, H., and Ehsan, M., An Improved Aggregated Model of Residential Air Conditioners for FIDVR Studies; *TPWRS March 2020 909-919*
- Halilbasic, L.**, see Venzke, A., *TPWRS Sept. 2020 4142*
- Hamilton, J.**, see Semshchikov, E., *TPWRS Sept. 2020 3719-3728*
- Hamoud, G.A.**, and Yiu, C., Assessment of Spare Parts for System Components Using a Markov Model; *TPWRS July 2020 3114-3121*
- Han, H.**, see Liu, Z., *TPWRS Sept. 2020 4100-4103*
- Han, S.**, see Zhang, H., *TPWRS July 2020 2549-2560*
- Hao, F.**, Zhang, G., Chen, J., Liu, Z., Xu, D., and Wang, Y., Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters; *TPWRS July 2020 2726-2735*
- Hao, Y.**, Wang, M., and Chow, J.H., Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems; *TPWRS March 2020 1166-1177*
- Hashemi, S.M.**, see Hajipour, E., *TPWRS March 2020 909-919*
- Hashmi, M.U.**, Deka, D., Busic, A., Pereira, L., and Backhaus, S., Arbitrage With Power Factor Correction Using Energy Storage; *TPWRS July 2020 2693-2703*
- Hassan, A.**, Mieth, R., Deka, D., and Dvorkin, Y., Stochastic and Distributionally Robust Load Ensemble Control; *TPWRS Nov. 2020 4678-4688*
- Hatziargyriou, N.**, see Farrokhabadi, M., *TPWRS Jan. 2020 13-29*
- Hatziargyriou, N.**, Best Papers and Outstanding Reviewers; *TPWRS July 2020 2492*
- Hatziargyriou, N.D.**, see Shen, F., *TPWRS May 2020 2190-2199*
- Hatziargyriou, N.D.**, see Zhao, J., *TPWRS July 2020 3213-3223*
- Hatziargyriou, N.D.**, see Esfahani, M., *TPWRS Sept. 2020 3481-3493*
- Hatziargyriou, N.D.**, see Zhao, J., *TPWRS Sept. 2020 3516-3528*
- Hatziargyriou, N.D.**, see Trakas, D.N., *TPWRS March 2020 1242-1253*
- He, C.**, see Zhang, Z., *TPWRS May 2020 2059-2071*
- He, F.H.**, see Tan, M., *TPWRS July 2020 2937-2948*
- He, H.**, see Shi, M., *TPWRS May 2020 2268-2278*
- He, J.**, see Wang, Z., *TPWRS May 2020 1812-1821*
- He, J.**, see Chen, K., *TPWRS May 2020 2362-2373*
- He, J.**, see Wang, Y., *TPWRS July 2020 3294-3296*
- He, X.**, Chu, L., Qiu, R.C., Ai, Q., Ling, Z., and Zhang, J., Invisible Units Detection and Estimation Based on Random Matrix Theory; *TPWRS May 2020 1846-1855*
- He, X.**, see Shi, X., *TPWRS March 2020 975-985*
- He, Y.**, see Lyu, X., *TPWRS Nov. 2020 4956-4959*
- Hedman, K.W.**, see Li, X., *TPWRS March 2020 1549-1561*
- Hegglid, G.J.**, see Oyvang, T., *TPWRS March 2020 1562-1571*
- Herre, L.**, Mathieu, J.L., and Soder, L., Impact of Market Timing on the Profit of a Risk-Averse Load Aggregator; *TPWRS Sept. 2020 3970-3980*
- Herrero, H.**, and Solares, C., A Greedy Algorithm for Observability Analysis; *TPWRS March 2020 1638-1641*
- Hill, D.J.**, see Zheng, Y., *TPWRS Jan. 2020 273-283*
- Hill, D.J.**, see Song, Y., *TPWRS Jan. 2020 496-507*
- Hill, D.J.**, see Zhu, L., *TPWRS May 2020 2399-2411*
- Hill, D.J.**, see Huang, W., *TPWRS July 2020 2609-2618*
- Hill, D.J.**, see Cai, H., *TPWRS July 2020 3203-3212*
- Hill, D.J.**, see Song, Y., *TPWRS Nov. 2020 4975-4976*
- Hin, M.**, see Owusu-Mireku, R., *TPWRS May 2020 1946-1955*
- Hiskens, I.A.**, see Luo, H., *TPWRS Sept. 2020 3603-3615*
- Hobbs, B.F.**, see Eldridge, B., *TPWRS May 2020 1684-1694*
- Hodge, B.**, see Fang, X., *TPWRS July 2020 2561-2574*
- Hohn, F.**, see Jahn, I., *TPWRS July 2020 2949-2958*
- Hong, H.**, see Su, H., *TPWRS July 2020 3262-3265*
- Hong, T.**, see Bracale, A., *TPWRS Jan. 2020 628-638*
- Hosani, K.A.**, see Ghosh, S., *TPWRS July 2020 3100-3113*
- Hoschle, H.**, see Torbaghan, S.S., *TPWRS Jan. 2020 98-108*
- Hossain, M.J.**, see Islam, M., *TPWRS March 2020 1120-1131*
- Hosseini, S.A.**, Toulabi, M., Dobakhshari, A.S., Ashouri-Zadeh, A., and Ranjbar, A.M., Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control; *TPWRS May 2020 2037-2046*
- Hosseini, S.H.**, see Pourahmadi, F., *TPWRS July 2020 2888-2903*
- Hosseini, S.H.**, see Choopani, M., *TPWRS Jan. 2020 527-538*
- Hotz, M.**, and Utschick, W., *hynet*: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems; *TPWRS March 2020 1036-1047*
- Hou, Q.**, Du, E., Zhang, N., and Kang, C., Impact of High Renewable Penetration on the Power System Operation Mode: A Data-Driven Approach; *TPWRS Jan. 2020 731-741*
- Hou, Y.**, see Zhao, J., *TPWRS July 2020 3213-3223*
- Hovsopian, R.O.**, see Pandey, S., *TPWRS July 2020 2748-2758*
- Hu, J.**, see Chen, K., *TPWRS May 2020 2362-2373*
- Hu, W.**, see Liu, B., *TPWRS Jan. 2020 825-828*
- Hu, W.**, see Cao, D., *TPWRS Sept. 2020 4120-4123*
- Hu, X.**, see Wu, S., *TPWRS July 2020 3026-3039*
- Hu, Z.**, see Xu, Y., *TPWRS July 2020 3278-3281*
- Hu, Z.**, see Luo, H., *TPWRS Sept. 2020 3603-3615*
- Hu, Z.**, see Liu, L., *TPWRS March 2020 1646-1649*
- Hua, B.**, Huang, B., Baldick, R., and Chen, Y., Tight Formulation of Transition Ramping of Combined Cycle Units; *TPWRS May 2020 2167-2175*
- Hua, H.**, see Liang, Y., *TPWRS Nov. 2020 4180-4192*
- Huang, B.**, see Hua, B., *TPWRS May 2020 2167-2175*
- Huang, H.**, Zhou, M., and Li, G., An Endogenous Approach to Quantifying the Wind Power Reserve; *TPWRS May 2020 2431-2442*
- Huang, J.**, see Rimorov, D., *TPWRS Sept. 2020 3825-3834*
- Huang, L.**, Xin, H., Li, Z., Ju, P., Yuan, H., and Wang, G., Identification of Generalized Short-Circuit Ratio for On-Line Stability Monitoring of Wind Farms; *TPWRS July 2020 3282-3285*
- Huang, Q.**, see Liu, B., *TPWRS Jan. 2020 825-828*
- Huang, Q.**, see Cao, D., *TPWRS Sept. 2020 4120-4123*
- Huang, Q.**, see Wang, P., *TPWRS Sept. 2020 3388-3399*
- Huang, R.**, see Zhao, J., *TPWRS May 2020 2443-2451*
- Huang, R.**, see Wang, S., *TPWRS Nov. 2020 4518-4527*
- Huang, S.**, see Zhang, Z., *TPWRS May 2020 1856-1867*
- Huang, S.**, see Xu, D., *TPWRS Nov. 2020 4769-4780*
- Huang, T.**, Freris, N.M., Kumar, P.R., and Xie, L., A Synchrophasor Data-Driven Method for Forced Oscillation Localization Under Resonance Conditions; *TPWRS Sept. 2020 3927-3939*
- Huang, W.**, see Li, M., *TPWRS Jan. 2020 594-604*
- Huang, W.**, Hill, D.J., and Zhang, X., Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure; *TPWRS July 2020 2609-2618*
- Huang, W.**, see Li, M., *TPWRS July 2020 3316*
- Huang, Y.**, see Shang, Y., *TPWRS Sept. 2020 3940-3952*
- Huang, Y.**, see Ju, Y., *TPWRS Nov. 2020 4896-4903*
- Huang, Z.**, see Zhao, J., *TPWRS May 2020 2443-2451*
- Huang, Z.**, see Zhou, N., *TPWRS July 2020 3274-3277*
- Huang, Z.**, see Wang, S., *TPWRS Nov. 2020 4518-4527*
- Hubert, L.**, see Bottieau, J., *TPWRS March 2020 1218-1230*
- Hug, G.**, see Chu, Z., *TPWRS Sept. 2020 4056-4066*
- Hug, G.**, see Paturet, M., *TPWRS Sept. 2020 3448-3458*
- Hug, G.**, see Jovicic, A., *TPWRS Sept. 2020 3790-3799*
- Hug, G.**, see Venzke, A., *TPWRS Sept. 2020 4142*
- Hui, H.**, Ding, Y., Lin, Z., Siano, P., and Song, Y., Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems; *TPWRS Jan. 2020 332-345*
- Hui, S.Y.R.**, see Zheng, Y., *TPWRS Jan. 2020 273-283*
- Huo, D.**, see Zhao, P., *TPWRS Sept. 2020 4014-4025*
- Hur, K.**, see Shin, H., *TPWRS March 2020 1618-1626*
- Hur, K.**, see Shim, J.W., *TPWRS Nov. 2020 4655-4665*
- Hwang, P.**, see Lee, G., *TPWRS July 2020 2804-2815*

I

- Iba, K.**, see Shin, H., *TPWRS March 2020 1618-1626*
- Ikaheimo, J.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Ioakimidis, C.S.**, see Thomas, D., *TPWRS July 2020 3087-3099*
- Iravani, A.**, and de Leon, F., Real-Time Transient Stability Assessment Using Dynamic Equivalents and Nonlinear Observers; *TPWRS July 2020 2981-2992*
- Isbeih, Y.J.**, see Ghosh, S., *TPWRS May 2020 1911-1922*

- Isbeih, Y.J.**, see Ghosh, S., *TPWRS July 2020 3051-3064*
Isbeih, Y.J., see Azman, S.K., *TPWRS Nov. 2020 4585-4598*
Ishii, T., see Koiwa, K., *TPWRS July 2020 2586-2596*
Islam, M., Nadarajah, M., and Hossain, M.J., A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults; *TPWRS March 2020 1120-1131*
Iu, H.H., see Yu, S.S., *TPWRS July 2020 2670-2682*

J

- Jabr, R.A.**, Distributionally Robust CVaR Constraints for Power Flow Optimization; *TPWRS Sept. 2020 3764-3773*
Jafarishadeh, F., Mohammadi, F., and Sahraei-Ardakani, M., Preventive Dispatch for Transmission De-icing; *TPWRS Sept. 2020 4104-4107*
Jafarpour, S., see Purba, V., *TPWRS March 2020 1520-1530*
Jahn, I., Hohn, F., Chaffey, G., and Norrga, S., An Open-Source Protection IED for Research and Education in Multiterminal HVDC Grids; *TPWRS July 2020 2949-2958*
Jahromi, A.A., Kemmeugne, A., Kundur, D., and Haddadi, A., Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes; *TPWRS Jan. 2020 440-450*
Janaki, M., see Velpula, S., *TPWRS Nov. 2020 4745-4755*
Januszewski, M., see Robak, S., *TPWRS May 2020 2422-2430*
Jereminov, M., see Jovicic, A., *TPWRS Sept. 2020 3790-3799*
Jia, Y., Meng, K., Sun, C., Yuan, L., and Dong, Z.Y., Economic-Driven Frequency Regulation in Multi-Terminal HVDC Systems: A Cooperative Distributed Approach; *TPWRS May 2020 2245-2255*
Jia, Y., see Lyu, X., *TPWRS Nov. 2020 4956-4959*
Jiang, L., see Wang, W., *TPWRS Nov. 2020 4609-4621*
Jiang, P., see Wu, C., *TPWRS Sept. 2020 3378-3387*
Jiang, Q., see Liu, W., *TPWRS July 2020 3078-3086*
Jiang, R., see Babaei, S., *TPWRS Sept. 2020 3332-3341*
Jiang, R., see Ma, H., *TPWRS March 2020 887-897*
Jiang, X., see Zhou, N., *TPWRS March 2020 1479-1488*
Jiang, Y., see Zhang, Z., *TPWRS May 2020 2059-2071*
Jimenez-Cordero, A., see Pineda, S., *TPWRS Sept. 2020 3695-3705*
Jin, C., see Liu, L., *TPWRS July 2020 2527-2536*
Jin, L., see Lin, W., *TPWRS May 2020 2222-2231*
Jin, R., see Liu, S., *TPWRS March 2020 1653-1656*
Jin, Y., Lu, C., Ju, P., Rehtanz, C., Wu, F., and Pan, X., Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG; *TPWRS May 2020 1769-1782*
Johns, J., see Mitra, P., *TPWRS July 2020 2631-2641*
Johnson, B.B., see Purba, V., *TPWRS March 2020 1520-1530*
Johnson, B.K., see Chakhchoukh, Y., *TPWRS March 2020 1188-1197*
Johnson, N.G., see Schweitzer, E., *TPWRS May 2020 1758-1768*
Jones, B., see Li, Y., *TPWRS Jan. 2020 128-139*
Jonsdottir, G.M., Murad, M.A.A., and Milano, F., On the Initialization of Transient Stability Models of Power Systems With the Inclusion of Stochastic Processes; *TPWRS Sept. 2020 4112-4115*
Joos, G., see Paul, A., *TPWRS May 2020 1707-1717*
Jorgenson, J., see Barrows, C., *TPWRS Jan. 2020 119-127*
Jovicic, A., Jereminov, M., Pileggi, L., and Hug, G., Enhanced Modelling Framework for Equivalent Circuit-Based Power System State Estimation; *TPWRS Sept. 2020 3790-3799*
Ju, P., see Jin, Y., *TPWRS May 2020 1769-1782*
Ju, P., see Shen, F., *TPWRS May 2020 1718-1728*
Ju, P., see Huang, L., *TPWRS July 2020 3282-3285*
Ju, Y., Wang, J., Zhang, Z., Huang, Y., and Lin, Y., A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function; *TPWRS Nov. 2020 4896-4903*
Jung, J., see Shin, H., *TPWRS March 2020 1618-1626*
Junior, E.Z., see Bez, D.M., *TPWRS Nov. 2020 4432-4444*
Jurado, F., see Tostado-Veliz, M., *TPWRS Nov. 2020 4148-4158*

K

- Kabalan, M.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
Kalmykov, Y.P., see Zarifakis, M., *TPWRS Jan. 2020 795-802*
Kamalasadan, S., see Ghosh, S., *TPWRS July 2020 3051-3064*
Kamel, S., see Tostado-Veliz, M., *TPWRS Nov. 2020 4148-4158*
Kamwa, I., see Paul, A., *TPWRS May 2020 1707-1717*
Kamwa, I., see Liu, J., *TPWRS July 2020 2619-2630*
Kamwa, I., see Rimorov, D., *TPWRS Sept. 2020 3825-3834*
Kamwa, I., see Hajebrahimi, A., *TPWRS Sept. 2020 3706-3718*
Kanatas, M., see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
Kang, C., see Yang, J., *TPWRS Jan. 2020 560-570*
Kang, C., see Hou, Q., *TPWRS Jan. 2020 731-741*
Kang, C., see Sun, M., *TPWRS Jan. 2020 188-201*
Kang, C., see Guo, H., *TPWRS May 2020 1898-1910*
Kang, C., see Zhuo, Z., *TPWRS July 2020 2597-2608*
Kang, C., see Ma, Z., *TPWRS Sept. 2020 3800-3809*
Kang, C., see Zhuo, Z., *TPWRS March 2020 1061-1074*
Kang, C., see Tan, Z., *TPWRS Nov. 2020 4285-4296*
Kang, C., see Zhang, Z., *TPWRS Nov. 2020 4383-4395*
Kang, Y., see Li, F., *TPWRS Jan. 2020 516-526*
Kang, Y., see Qin, J., *TPWRS March 2020 986-996*
Kardos, J., Kourounis, D., and Schenk, O., Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems; *TPWRS March 2020 1340-1350*
Kargar, A., see Eshkaftaki, A.A., *TPWRS May 2020 2351-2361*
Kargarian, A., see Safdarian, F., *TPWRS May 2020 1834-1845*
Karimi, M.R., see Hajipour, E., *TPWRS March 2020 909-919*
Karki, R., see Gautam, P., *TPWRS July 2020 3236-3246*
Karra, K., see Xu, Y., *TPWRS Nov. 2020 4756-4768*
Karrari, M., see Afshari, A., *TPWRS Sept. 2020 3774-3789*
Karunanayake, C., Ravishankar, J., and Dong, Z.Y., Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems; *TPWRS March 2020 1156-1165*
Kavousi-Fard, A., see Dabbaghjamanesh, M., *TPWRS July 2020 2847-2862*
Kazempour, J., see Ye, Y., *TPWRS Jan. 2020 163-176*
Kazempour, J., see Pourahmadi, F., *TPWRS July 2020 2888-2903*
Kazempour, J., see Thomas, D., *TPWRS July 2020 3087-3099*
Kemmeugne, A., see Jahromi, A.A., *TPWRS Jan. 2020 440-450*
Kestelyn, X., see Ugwuanyi, N.S., *TPWRS July 2020 3247-3257*
Khalid, M., Discussion on "Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids" *TPWRS Sept. 2020 4138*
Khalid, M., see Alshehri, J., *TPWRS Nov. 2020 4972*
Khan, M.A., and Pierre, J.W., Separable Estimation of Ambient Noise Spectrum in Synchrophasor Measurements in the Presence of Forced Oscillations; *TPWRS Jan. 2020 415-423*
Khapharde, S.A., see Majumder, S., *TPWRS March 2020 1231-1241*
Khayat, Y., Guerrero, J.M., and Bevrani, H., Closure to Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids" *TPWRS Nov. 2020 4973*
Kheradmandi, M., see Oshnoei, A., *TPWRS Nov. 2020 4781-4791*
Khodaei, A., see Eskandarpour, R., *TPWRS Sept. 2020 4135-4137*
Khorrarnadel, B., Zare, A., Chung, C.Y., and Gavrilidis, P., A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling; *TPWRS March 2020 873-886*
Kim, D., White, A., and Shin, Y., Adaptive Event Location Technique via Time Difference of Event Arrival; *TPWRS Jan. 2020 75-84*
Kim, H., Lee, J., Bahrami, S., and Wong, V.W.S., Direct Energy Trading of Microgrids in Distribution Energy Market; *TPWRS Jan. 2020 639-651*
Kim, H., see Ryu, S., *TPWRS March 2020 1048-1060*
Kim, J., and Dvorkin, Y., A P2P-Dominant Distribution System Architecture; *TPWRS July 2020 2716-2725*
Kim, Y., see Lee, J., *TPWRS Sept. 2020 4139*
Kim, Y., see Kwon, D., *TPWRS Nov. 2020 4539-4553*
Kirakosyan, A., El-Saadany, E.F., Moursi, M.S.E., Yazdavar, A.H., and Al-Durra, A., Communication-Free Current Sharing Control Strategy for

- DC Microgrids and Its Application for AC/DC Hybrid Microgrids; *TPWRS Jan. 2020 140-151*
- Kirschen, D.S.**, see Elliott, R.T., *TPWRS March 2020 1446-1456*
- Kirschen, D.S.**, see Olsen, D.J., *TPWRS March 2020 1509-1519*
- Klauber, C.**, Shetye, K., Overbye, T.J., and Davis, K., A GIC Estimator for Electric Grid Monitoring During Geomagnetic Disturbances; *TPWRS Nov. 2020 4847-4855*
- Knezevic, S.D.**, see Popovic, Z.N., *TPWRS Sept. 2020 3895-3905*
- Koiwa, K.**, Ishii, T., Liu, K., Zanma, T., and Tamura, J., On the Reduction of the Rated Power of Energy Storage System in Wind Farms; *TPWRS July 2020 2586-2596*
- Kok, K.**, see Stappers, B., *TPWRS July 2020 3040-3050*
- Kong, W.**, Ma, K., Fang, L., Wei, R., and Li, F., Cost-Benefit Analysis of Phase Balancing Solution for Data-Scarce LV Networks by Cluster-Wise Gaussian Process Regression; *TPWRS July 2020 3170-3180*
- Kong, X.**, Li, C., Zheng, F., and Wang, C., Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management; *TPWRS March 2020 1531-1538*
- Konstantelos, I.**, see Rousis, A.O., *TPWRS Jan. 2020 227-237*
- Korkali, M.**, see Xu, Y., *TPWRS July 2020 3278-3281*
- Korkali, M.**, see Xu, Y., *TPWRS March 2020 1109-1119*
- Korkali, M.**, see Xu, Y., *TPWRS Nov. 2020 4756-4768*
- Kouki, M.**, Marinescu, B., and Xavier, F., Exhaustive Modal Analysis of Large-Scale Interconnected Power Systems With High Power Electronics Penetration; *TPWRS July 2020 2759-2768*
- Kourounis, D.**, see Kardos, J., *TPWRS March 2020 1340-1350*
- Krecar, N.**, Benth, F.E., and Gubina, A.F., Towards Definition of the Risk Premium Function; *TPWRS March 2020 1085-1098*
- Krishnamurthy, D.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Kroposki, B.**, see Zhuo, Z., *TPWRS July 2020 2597-2608*
- Kryonidis, G.C.**, see Pompodakis, E.E., *TPWRS March 2020 1143-1155*
- Kulkarni, S.V.**, see Majumder, S., *TPWRS March 2020 1231-1241*
- Kumar, P.R.**, see Huang, T., *TPWRS Sept. 2020 3927-3939*
- Kundu, S.**, see Nandanoori, S.P., *TPWRS Sept. 2020 3981-3990*
- Kundur, D.**, see Jahromi, A.A., *TPWRS Jan. 2020 440-450*
- Kwon, D.**, see Lee, G., *TPWRS July 2020 2804-2815*
- Kwon, D.**, see Lee, G., *TPWRS Nov. 2020 4944-4947*
- Kwon, D.**, Kim, Y., and Gomis-Bellmunt, O., Optimal DC Voltage and Current Control of an LCC HVDC System to Improve Real-Time Frequency Regulation in Rectifier- and Inverter-Side Grids; *TPWRS Nov. 2020 4539-4553*
- Kwon, J.**, Zhou, Z., Levin, T., and Botterud, A., Resource Adequacy in Electricity Markets With Renewable Energy; *TPWRS Jan. 2020 773-781*
- L**
- Lagos, D.**, see Farrokhbadi, M., *TPWRS Jan. 2020 13-29*
- Lagos, T.**, Moreno, R., Espinosa, A.N., Panteli, M., Sacaan, R., Ordonez, F., Rudnick, H., and Mancarella, P., Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes; *TPWRS March 2020 1411-1421*
- Lai, C.**, and Liu, C., A Scheme to Mitigate Generation Trip Events by Ancillary Services Considering Minimal Actions of UFLS; *TPWRS Nov. 2020 4815-4823*
- Lai, C.S.**, see Xu, X., *TPWRS Sept. 2020 3562-3573*
- Lai, X.**, see Fang, X., *TPWRS July 2020 2794-2803*
- Lan, Y.**, Zhu, H., and Guan, X., Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation; *TPWRS May 2020 2412-2421*
- Lao, K.**, see Nguyen, Q., *TPWRS May 2020 1979-1989*
- Lau, J.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Le Cadre, H.**, see Bruninx, K., *TPWRS March 2020 840-853*
- Lee, B.**, see Shin, H., *TPWRS March 2020 1618-1626*
- Lee, D.**, Turitsyn, K., Molzahn, D.K., and Roald, L.A., Feasible Path Identification in Optimal Power Flow With Sequential Convex Restriction; *TPWRS Sept. 2020 3648-3659*
- Lee, G.**, Kwon, D., Moon, S., and Hwang, P., A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations; *TPWRS July 2020 2804-2815*
- Lee, G.**, Kwon, D., and Moon, S., Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations; *TPWRS Nov. 2020 4944-4947*
- Lee, H.**, see Ryu, S., *TPWRS March 2020 1048-1060*
- Lee, J.**, see Kim, H., *TPWRS Jan. 2020 639-651*
- Lee, J.**, Kim, Y., and Moon, S., Closure to Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids” *TPWRS Sept. 2020 4139*
- Lee, W.**, see Wang, P., *TPWRS Sept. 2020 3388-3399*
- Lehtonen, M.**, see Pourakbari-Kasmaei, M., *TPWRS Jan. 2020 346-361*
- Lei, H.**, see Chakhchoukh, Y., *TPWRS March 2020 1188-1197*
- Lei, S.**, see Song, Y., *TPWRS Jan. 2020 496-507*
- Lei, S.**, see Song, Y., *TPWRS Nov. 2020 4975-4976*
- Lejeune, M.A.**, and Dehghanian, P., Optimal Power Flow Models With Probabilistic Guarantees: A Boolean Approach; *TPWRS Nov. 2020 4932-4935*
- Lelic, I.**, see Yan, B., *TPWRS Jan. 2020 782-794*
- Leon, A.E.**, see Mauricio, J.M., *TPWRS July 2020 2904-2914*
- Levin, T.**, see Kwon, J., *TPWRS Jan. 2020 773-781*
- Li, C.**, Wu, Y., Sun, Y., Zhang, H., Liu, Y., Liu, Y., and Terzija, V., Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control; *TPWRS March 2020 950-961*
- Li, C.**, see Kong, X., *TPWRS March 2020 1531-1538*
- Li, C.**, see Xu, D., *TPWRS Nov. 2020 4769-4780*
- Li, C.**, Duan, C., and Cao, Y., An Efficient Method for Computing Exact Delay-Margins of Large-Scale Power Systems; *TPWRS Nov. 2020 4924-4927*
- Li, F.**, Qin, J., and Kang, Y., Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach; *TPWRS Jan. 2020 516-526*
- Li, F.**, see Lu, X., *TPWRS May 2020 2212-2221*
- Li, F.**, see Cao, Z., *TPWRS May 2020 1881-1897*
- Li, F.**, see Kong, W., *TPWRS July 2020 3170-3180*
- Li, F.**, see Xie, R., *TPWRS July 2020 2658-2669*
- Li, F.**, see Du, Y., *TPWRS July 2020 2704-2715*
- Li, F.**, see Yang, X., *TPWRS Sept. 2020 3342-3352*
- Li, G.**, see Huang, H., *TPWRS May 2020 2431-2442*
- Li, H.**, see Duan, J., *TPWRS Jan. 2020 814-817*
- Li, H.**, see Tan, M., *TPWRS July 2020 2937-2948*
- Li, H.**, see Wang, S., *TPWRS Nov. 2020 4644-4654*
- Li, J.**, see Liu, Y., *TPWRS May 2020 2200-2211*
- Li, J.**, see Zhang, Z., *TPWRS May 2020 2059-2071*
- Li, J.**, see Wang, Y., *TPWRS July 2020 3294-3296*
- Li, J.**, see Du, Y., *TPWRS July 2020 2704-2715*
- Li, J.**, see Xu, X., *TPWRS Sept. 2020 3562-3573*
- Li, J.**, see Liu, Y., *TPWRS Sept. 2020 4116-4119*
- Li, J.**, see Yu, J., *TPWRS Nov. 2020 4912-4915*
- Li, L.**, see Zhang, H., *TPWRS July 2020 2549-2560*
- Li, M.**, Huang, W., Tai, N., Yang, L., Duan, D., and Ma, Z., A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator; *TPWRS Jan. 2020 594-604*
- Li, M.**, see Yang, Y., *TPWRS July 2020 2769-2782*
- Li, M.**, Huang, W., Tai, N., Yang, L., Duan, D., and Ma, Z., Correction to “A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator” [Jan 20 594-604]; *TPWRS July 2020 3316*
- Li, M.**, see Wang, W., *TPWRS Nov. 2020 4445-4458*
- Li, N.**, see Qu, G., *TPWRS Jan. 2020 315-331*
- Li, Q.**, see Nguyen, H.T., *TPWRS Sept. 2020 3494-3505*
- Li, S.**, see Tan, M., *TPWRS July 2020 2937-2948*
- Li, T.**, see Ye, H., *TPWRS March 2020 1376-1388*
- Li, W.**, see Chen, X., *TPWRS Jan. 2020 85-97*
- Li, W.**, see Lin, W., *TPWRS May 2020 2222-2231*
- Li, W.**, see Liu, L., *TPWRS July 2020 2527-2536*
- Li, W.**, see Zhang, Y., *TPWRS Sept. 2020 3739-3752*
- Li, W.**, Zhu, M., Chao, P., Liang, X., and Xu, D., Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms; *TPWRS March 2020 1606-1617*

- Li, X., Zhai, Q., Zhou, J., and Guan, X., A Variable Reduction Method for Large-Scale Unit Commitment; *TPWRS Jan. 2020 261-272*
- Li, X., and Hedman, K.W., Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy; *TPWRS March 2020 1549-1561*
- Li, Y., Fan, L., and Miao, Z., Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions; *TPWRS Jan. 2020 109-118*
- Li, Y., and Jones, B., The Use of Extreme Value Theory for Forecasting Long-Term Substation Maximum Electricity Demand; *TPWRS Jan. 2020 128-139*
- Li, Y., see Zhao, M., *TPWRS May 2020 2176-2189*
- Li, Y., see Tan, Y., *TPWRS May 2020 2475-2478*
- Li, Y., Xiao, H., and Duan, X., Theoretical Parameter Design Method of SFCL for Concurrent Commutation Failure Inhibition in SFCL-Segmented Multi-Infeed LCC-HVDC Systems; *TPWRS May 2020 1741-1757*
- Li, Y., see Zhang, Z., *TPWRS May 2020 2059-2071*
- Li, Y., see Xiao, H., *TPWRS July 2020 2863-2875*
- Li, Y., Meng, K., Dong, Z.Y., and Zhang, W., Sliding Framework for Inverter-Based Microgrid Control; *TPWRS March 2020 1657-1660*
- Li, Y., see Wang, W., *TPWRS Nov. 2020 4609-4621*
- Li, Y., see Ling, Y., *TPWRS Nov. 2020 4263-4271*
- Li, Z., see Zhang, Y., *TPWRS Jan. 2020 762-772*
- Li, Z., see Zhou, Y., *TPWRS May 2020 2388-2398*
- Li, Z., see Feng, C., *TPWRS May 2020 1729-1740*
- Li, Z., see Shen, F., *TPWRS May 2020 1718-1728*
- Li, Z., see Zhou, Y., *TPWRS May 2020 2155-2166*
- Li, Z., see Huang, L., *TPWRS July 2020 3282-3285*
- Li, Z., see Wu, S., *TPWRS July 2020 3026-3039*
- Li, Z., Wu, W., Tai, X., and Zhang, B., Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches; *TPWRS Sept. 2020 3991-4004*
- Li, Z., see Zhou, Q., *TPWRS March 2020 1294-1304*
- Li, Z., Wu, W., Zhang, B., and Tai, X., Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration; *TPWRS March 2020 1457-1467*
- Lian, J., see Wilches-Bernal, F., *TPWRS May 2020 2024-2036*
- Lian, Z., see Liu, S., *TPWRS March 2020 1653-1656*
- Liang, H., see Liu, C., *TPWRS March 2020 1468-1478*
- Liang, X., see Li, W., *TPWRS March 2020 1606-1617*
- Liang, Y., Guo, C., Ding, Z., and Hua, H., Agent-Based Modeling in Electricity Market Using Deep Deterministic Policy Gradient Algorithm; *TPWRS Nov. 2020 4180-4192*
- Liang, Z., see Zheng, X., *TPWRS March 2020 1364-1375*
- Liao, J., see Shang, Y., *TPWRS Sept. 2020 3940-3952*
- Liberzon, D., see Ajala, O., *TPWRS Nov. 2020 4803-4814*
- Lie, B., see Oyvang, T., *TPWRS March 2020 1562-1571*
- Lilla, S., Orozco, C., Borghetti, A., Napolitano, F., and Tossani, F., Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach; *TPWRS March 2020 1132-1142*
- Lim, G.J., see Wu, Y., *TPWRS Jan. 2020 3-12*
- Lim, G.J., see Wu, Y., *TPWRS May 2020 2487*
- Lima, L., see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Lin, C., Bie, Z., Pan, C., and Liu, S., Fast Cumulant Method for Probabilistic Power Flow Considering the Nonlinear Relationship of Wind Power Generation; *TPWRS July 2020 2537-2548*
- Lin, J., see Qiu, Y., *TPWRS Jan. 2020 462-473*
- Lin, J., see Qiu, Y., *TPWRS Nov. 2020 4709-4722*
- Lin, N., see Cao, S., *TPWRS March 2020 1539-1548*
- Lin, W., Yang, Z., Yu, J., Jin, L., and Li, W., Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy; *TPWRS May 2020 2222-2231*
- Lin, X., see Yu, J., *TPWRS May 2020 1967-1978*
- Lin, Y., see Ju, Y., *TPWRS Nov. 2020 4896-4903*
- Lin, Z., see Hui, H., *TPWRS Jan. 2020 332-345*
- Lin, Z., see Zhang, Z., *TPWRS May 2020 2059-2071*
- Lin, Z., see Zhang, Z., *TPWRS May 2020 2059-2071*
- Lin, Z., see Liu, S., *TPWRS Sept. 2020 3574-3587*
- Lin, Z., see Liu, S., *TPWRS March 2020 1653-1656*
- Lin, Z., see Liu, S., *TPWRS March 2020 1653-1656*
- Lin, Z., see Liu, W., *TPWRS Nov. 2020 4167-4179*
- Ling, Y., Li, Y., and Xiang, J., Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator; *TPWRS Nov. 2020 4263-4271*
- Ling, Z., see He, X., *TPWRS May 2020 1846-1855*
- Liserre, M., see Farrokhbadi, M., *TPWRS Jan. 2020 13-29*
- Litvinov, E., see Zhao, J., *TPWRS July 2020 3015-3025*
- Litvinov, E., see Zhao, F., *TPWRS Nov. 2020 4888-4895*
- Litvinov, E., see Zhao, F., *TPWRS Nov. 2020 4880-4887*
- Liu, A.L., see Ramyar, S., *TPWRS March 2020 898-908*
- Liu, B., Huang, Q., Zhao, J., and Hu, W., A Computational Attractive Interval Power Flow Approach With Correlated Uncertain Power Injections; *TPWRS Jan. 2020 825-828*
- Liu, B., see Lu, S., *TPWRS May 2020 2374-2387*
- Liu, B., Meng, K., Dong, Z.Y., Wong, P.K., and Ting, T., Unbalance Mitigation via Phase-Switching Device and Static Var Compensator in Low-Voltage Distribution Network; *TPWRS Nov. 2020 4856-4869*
- Liu, C., Liang, H., Chen, T., Wu, J., and Long, C., Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation; *TPWRS March 2020 1468-1478*
- Liu, C., see Lai, C., *TPWRS Nov. 2020 4815-4823*
- Liu, C.M., see Yang, H., *TPWRS Sept. 2020 3529-3540*
- Liu, D., see Liu, J., *TPWRS July 2020 2619-2630*
- Liu, F., see Qiu, Y., *TPWRS Jan. 2020 462-473*
- Liu, F., see Yang, P., *TPWRS May 2020 2313-2324*
- Liu, F., see Qiu, Y., *TPWRS Nov. 2020 4709-4722*
- Liu, G., see Azizi, S., *TPWRS Nov. 2020 4948-4951*
- Liu, J., see Zhang, X., *TPWRS July 2020 2959-2970*
- Liu, J., Tang, F., Zhao, J., Liu, D., and Kamwa, I., Coherency Identification for Wind-Integrated Power System Using Virtual Synchronous Motion Equation; *TPWRS July 2020 2619-2630*
- Liu, J., see Liu, T., *TPWRS Sept. 2020 4088-4099*
- Liu, J., see Ruan, H., *TPWRS Nov. 2020 4220-4231*
- Liu, K., see Koiwa, K., *TPWRS July 2020 2586-2596*
- Liu, L., see Fang, S., *TPWRS May 2020 1783-1795*
- Liu, L., Li, W., Ba, Y., Shen, J., Jin, C., and Wen, K., An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance; *TPWRS July 2020 2527-2536*
- Liu, L., and Hu, Z., Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem; *TPWRS March 2020 1646-1649*
- Liu, M., see Chen, J., *TPWRS Sept. 2020 4131-4134*
- Liu, P., see Qiu, H., *TPWRS Sept. 2020 3636-3647*
- Liu, S., see Dobbe, R., *TPWRS May 2020 1674-1683*
- Liu, S., see Lin, C., *TPWRS July 2020 2537-2548*
- Liu, S., Lin, Z., Zhao, Y., Liu, Y., Ding, Y., Zhang, B., Yang, L., Wang, Q., and White, S.E., Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources; *TPWRS Sept. 2020 3574-3587*
- Liu, S., Cui, X., Lin, Z., Lian, Z., Lin, Z., Wen, F., Ding, Y., Wang, Q., Yang, L., Jin, R., and Qiu, H., Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification; *TPWRS March 2020 1653-1656*
- Liu, T., see Song, Y., *TPWRS Jan. 2020 496-507*
- Liu, T., Liu, Y., Liu, J., Wang, L., Xu, L., Qiu, G., and Gao, H., A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control; *TPWRS Sept. 2020 4088-4099*
- Liu, T., see Lyu, X., *TPWRS Nov. 2020 4956-4959*
- Liu, T., see Song, Y., *TPWRS Nov. 2020 4975-4976*
- Liu, W., Geng, G., Jiang, Q., Fan, H., and Yu, J., Model-Free Fast Frequency Control Support With Energy Storage System; *TPWRS July 2020 3078-3086*
- Liu, W., see Shang, Y., *TPWRS Sept. 2020 3940-3952*
- Liu, W., Zhan, J., Chung, C.Y., and Sun, L., Availability Assessment Based Case-Sensitive Power System Restoration Strategy; *TPWRS March 2020 1432-1445*

- Liu, W.**, Lin, Z., Wang, L., Wang, Z., Wang, H., and Gong, Q., Analytical Reliability Evaluation of Active Distribution Systems Considering Information Link Failures; *TPWRS Nov. 2020 4167-4179*
- Liu, X.**, see Zhou, Q., *TPWRS May 2020 2452-2462*
- Liu, X.**, see Zhang, H., *TPWRS Sept. 2020 3682-3694*
- Liu, Y.**, Wu, L., Li, J., Chen, Y., and Wang, F., Towards Accurate Modeling on Configuration Transitions and Dynamic Ramping of Combined-Cycle Units in UC Problems; *TPWRS May 2020 2200-2211*
- Liu, Y.**, see Wang, W., *TPWRS May 2020 2483-2486*
- Liu, Y.**, and Sun, K., Solving Power System Differential Algebraic Equations Using Differential Transformation; *TPWRS May 2020 2289-2299*
- Liu, Y.**, see Zhang, X., *TPWRS July 2020 2959-2970*
- Liu, Y.**, see Zhao, J., *TPWRS July 2020 3213-3223*
- Liu, Y.**, see Zhang, H., *TPWRS July 2020 2549-2560*
- Liu, Y.**, see Liu, T., *TPWRS Sept. 2020 4088-4099*
- Liu, Y.**, see Liu, S., *TPWRS Sept. 2020 3574-3587*
- Liu, Y.**, Wu, L., and Li, J., A Fast LP-Based Approach for Robust Dynamic Economic Dispatch Problem: A Feasible Region Projection Method; *TPWRS Sept. 2020 4116-4119*
- Liu, Y.**, see Mou, Q., *TPWRS March 2020 1499-1508*
- Liu, Y.**, see Li, C., *TPWRS March 2020 950-961*
- Liu, Y.**, see Li, C., *TPWRS March 2020 950-961*
- Liu, Y.**, see Yao, R., *TPWRS March 2020 938-949*
- Liu, Y.**, see Ye, H., *TPWRS March 2020 1376-1388*
- Liu, Y.**, see Ruan, H., *TPWRS Nov. 2020 4220-4231*
- Liu, Z.**, Wang, L., and Ma, L., A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization; *TPWRS Jan. 2020 395-404*
- Liu, Z.**, see Zhou, X., *TPWRS May 2020 2047-2058*
- Liu, Z.**, see Hao, F., *TPWRS July 2020 2726-2735*
- Liu, Z.**, see Wu, S., *TPWRS July 2020 3026-3039*
- Liu, Z.**, Zhang, X., Su, M., Sun, Y., Han, H., and Wang, P., Convergence Analysis of Newton-Raphson Method in Feasible Power-Flow for DC Network; *TPWRS Sept. 2020 4100-4103*
- Lobato Miguelez, E.**, see Doenges, K., *TPWRS July 2020 2816-2825*
- Long, C.**, see Liu, C., *TPWRS March 2020 1468-1478*
- Long, Q.**, see Zhang, H., *TPWRS July 2020 2549-2560*
- Loparo, K.A.**, see Parizy, E.S., *TPWRS Sept. 2020 3421-3432*
- Loparo, K.A.**, see Strezoski, L.V., *TPWRS March 2020 1209-1217*
- Lopez, J.A.**, and Lu, C., Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations; *TPWRS Sept. 2020 3459-3469*
- Lopez, J.C.**, see Shen, F., *TPWRS May 2020 2190-2199*
- Lou, S.**, see Wang, Y., *TPWRS March 2020 1178-1187*
- Lu, C.**, see Jin, Y., *TPWRS May 2020 1769-1782*
- Lu, C.**, see Zhu, L., *TPWRS May 2020 2399-2411*
- Lu, C.**, see Lopez, J.A., *TPWRS Sept. 2020 3459-3469*
- Lu, C.**, see Manaz, M.A.M., *TPWRS Nov. 2020 4297-4306*
- Lu, S.**, Gu, W., Meng, K., Yao, S., Liu, B., and Dong, Z.Y., Thermal Inertial Aggregation Model for Integrated Energy Systems; *TPWRS May 2020 2374-2387*
- Lu, S.**, see Wu, C., *TPWRS Sept. 2020 3378-3387*
- Lu, T.**, see Shen, F., *TPWRS May 2020 2190-2199*
- Lu, X.**, Chan, K.W., Xia, S., Zhang, X., Wang, G., and Li, F., A Model to Mitigate Forecast Uncertainties in Distribution Systems Using the Temporal Flexibility of EVAs; *TPWRS May 2020 2212-2221*
- Lu, X.**, see Zhao, T., *TPWRS Sept. 2020 4127-4130*
- Luh, P.B.**, see Yan, B., *TPWRS Jan. 2020 782-794*
- Luh, P.B.**, see Wan, W., *TPWRS Sept. 2020 3857-3868*
- Lumbreras, S.**, see Tejada-Arango, D.A., *TPWRS July 2020 2926-2936*
- Luo, H.**, Hiskens, I.A., and Hu, Z., Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay; *TPWRS Sept. 2020 3603-3615*
- Luo, J.**, Bu, S., Zhu, J., and Chung, C.Y., Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG; *TPWRS Sept. 2020 4046-4055*
- Luo, L.**, see Zhou, N., *TPWRS March 2020 1479-1488*
- Lyu, X.**, Jia, Y., Liu, T., and He, Y., Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation; *TPWRS Nov. 2020 4956-4959*

M

- Ma, H.**, see Cai, H., *TPWRS July 2020 3203-3212*
- Ma, H.**, Jiang, R., and Yan, Z., Distributionally Robust Co-Optimization of Power Dispatch and Do-Not-Exceed Limits; *TPWRS March 2020 887-897*
- Ma, J.**, Zhang, Y., Shen, Y., Cheng, P., and Phadke, A.G., Equipment-Level Locating of Low Frequency Oscillating Source in Power System With DFIG Integration Based on Dynamic Energy Flow; *TPWRS Sept. 2020 3433-3447*
- Ma, K.**, see Fang, L., *TPWRS Jan. 2020 751-761*
- Ma, K.**, see Kong, W., *TPWRS July 2020 3170-3180*
- Ma, K.**, see Wu, H., *TPWRS Nov. 2020 4928-4931*
- Ma, L.**, see Liu, Z., *TPWRS Jan. 2020 395-404*
- Ma, Y.**, see Chen, Y., *TPWRS Jan. 2020 711-720*
- Ma, Z.**, see Li, M., *TPWRS Jan. 2020 594-604*
- Ma, Z.**, see Li, M., *TPWRS July 2020 3316*
- Ma, Z.**, Zhong, H., Xia, Q., Kang, C., Wang, Q., and Cao, X., A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement; *TPWRS Sept. 2020 3800-3809*
- Macedo Braz, H.D.d.**, see Meira de Andrade, P.H., *TPWRS Sept. 2020 3400-3409*
- Machowski, J.**, see Robak, S., *TPWRS May 2020 2422-2430*
- Madani, R.**, see Altun, T., *TPWRS Nov. 2020 4272-4284*
- Madsen, H.**, see Zotti, G.D., *TPWRS May 2020 1868-1880*
- Maffezzoni, P.**, see Grusso, G., *TPWRS Jan. 2020 618-627*
- Mahamed, B.**, and Fletcher, J.E., The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems; *TPWRS July 2020 2876-2887*
- Mahish, P.**, and Pradhan, A.K., Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation; *TPWRS Jan. 2020 362-373*
- Mahmoud, K.**, see Bedawy, A., *TPWRS March 2020 1023-1035*
- Majumdar, A.**, see Sharma, S., *TPWRS Nov. 2020 4916-4919*
- Majumder, S.**, Agalgaonkar, A.P., Khaparde, S.A., Perera, S., Kulkarni, S.V., and Ciufu, P.P., Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems; *TPWRS March 2020 1231-1241*
- Mak, T.W.K.**, Fioretto, F., Shi, L., and Van Hentenryck, P., Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach; *TPWRS March 2020 1627-1637*
- Malekpour, A.R.**, Annaswamy, A.M., and Shah, J., Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids; *TPWRS March 2020 854-863*
- Malekpour, M.**, see Azizipanah-Abarghooee, R., *TPWRS March 2020 1198-1208*
- Malekpour, M.**, Azizipanah-Abarghooee, R., Teng, F., Strbac, G., and Terzija, V., Fast Frequency Response From Smart Induction Motor Variable Speed Drives; *TPWRS March 2020 997-1008*
- Mallick, M.**, see Srikantha, P., *TPWRS Nov. 2020 4470-4483*
- Manaz, M.A.M.**, and Lu, C., Design of Resonance Damper for Wind Energy Conversion System Providing Frequency Support Service to Low Inertia Power Systems; *TPWRS Nov. 2020 4297-4306*
- Mancarella, P.**, see Lagos, T., *TPWRS March 2020 1411-1421*
- Mancilla-David, F.**, see Alvarez, C., *TPWRS May 2020 2108-2119*
- Marinescu, B.**, see Kouki, M., *TPWRS July 2020 2759-2768*
- Marinescu, B.**, see Ugwuanyi, N.S., *TPWRS July 2020 3247-3257*
- Marinovic, L.D.**, and Chen, H., Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems; *TPWRS March 2020 864-872*
- Markovic, U.**, see Chu, Z., *TPWRS Sept. 2020 4056-4066*
- Markovic, U.**, see Paturet, M., *TPWRS Sept. 2020 3448-3458*
- Markovic, U.**, see Venzke, A., *TPWRS Sept. 2020 4142*
- Marneris, I.G.**, Roumkos, C.G., and Biskas, P.N., Towards Balancing Market Integration: Conversion Process for Balancing Energy Offers of Central-Dispatch Systems; *TPWRS Jan. 2020 293-303*

- Martino, J.M.D.**, see Massafiero, P., *TPWRS Jan. 2020 703-710*
- Massafiero, P.**, Martino, J.M.D., and Fernandez, A., Fraud Detection in Electric Power Distribution: An Approach That Maximizes the Economic Return; *TPWRS Jan. 2020 703-710*
- Mathieu, J.L.**, see Herre, L., *TPWRS Sept. 2020 3970-3980*
- Mauricio, J.M.**, and Leon, A.E., Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation; *TPWRS July 2020 2904-2914*
- Mazhari, S.M.**, see Chen, Y., *TPWRS Nov. 2020 4632-4643*
- McBennett, B.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Meegahapola, L.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- MehdipourPicha, H.**, see Wu, C., *TPWRS Sept. 2020 3378-3387*
- Mehrabankhomartash, M.**, Saeedifard, M., and Grijalva, S., Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids; *TPWRS Jan. 2020 177-187*
- Mehrzi-Sani, A.**, see Syed, M.H., *TPWRS Nov. 2020 4904-4907*
- Mei, S.**, see Zhang, Z., *TPWRS May 2020 1856-1867*
- Mei, S.**, see Xie, R., *TPWRS July 2020 2658-2669*
- Mei, S.**, see Guo, Z., *TPWRS July 2020 3305-3307*
- Mei, S.**, see Cao, Y., *TPWRS Nov. 2020 4908-4911*
- Meira de Andrade, P.H.**, Villanueva, J.M.M., Macedo Braz, H.D.d., An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System; *TPWRS Sept. 2020 3400-3409*
- Mendoza-Araya, P.A.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Meng, K.**, see Lu, S., *TPWRS May 2020 2374-2387*
- Meng, K.**, see Jia, Y., *TPWRS May 2020 2245-2255*
- Meng, K.**, see Li, Y., *TPWRS March 2020 1657-1660*
- Meng, K.**, see Shen, W., *TPWRS Nov. 2020 4193-4205*
- Meng, K.**, see Liu, B., *TPWRS Nov. 2020 4856-4869*
- Messina, A.R.**, see Ugwuanyi, N.S., *TPWRS July 2020 3247-3257*
- Messina, A.R.**, see Golpira, H., *TPWRS Nov. 2020 4824-4835*
- Mi, T.**, see Yang, H., *TPWRS Sept. 2020 3529-3540*
- Mi, T.**, see Shi, X., *TPWRS March 2020 975-985*
- Miao, Z.**, see Li, Y., *TPWRS Jan. 2020 109-118*
- Miao, Z.**, see Fan, L., *TPWRS July 2020 3312-3315*
- Mieth, R.**, and Dvorkin, Y., Distribution Electricity Pricing Under Uncertainty; *TPWRS May 2020 2325-2338*
- Mieth, R.**, see Weinhold, R., *TPWRS Nov. 2020 4574-4584*
- Mieth, R.**, see Hassan, A., *TPWRS Nov. 2020 4678-4688*
- Milano, F.**, see Tzounas, G., *TPWRS Jan. 2020 742-750*
- Milano, F.**, see Ortega, A., *TPWRS July 2020 3308-3311*
- Milano, F.**, see Jonsdottir, G.M., *TPWRS Sept. 2020 4112-4115*
- Milano, F.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Milano, F.**, see Chen, J., *TPWRS Sept. 2020 4131-4134*
- Milano, F.**, see Tzounas, G., *TPWRS Nov. 2020 4622-4631*
- Milanovic, J.V.**, see Ponocko, J., *TPWRS May 2020 1822-1833*
- Milanovic, J.V.**, see Zhao, T., *TPWRS Sept. 2020 3729-3738*
- Mili, L.**, see Zhao, J., *TPWRS May 2020 2443-2451*
- Mili, L.**, see Xu, Y., *TPWRS July 2020 3278-3281*
- Mili, L.**, see Xu, Y., *TPWRS March 2020 1109-1119*
- Mili, L.**, see Xu, Y., *TPWRS Nov. 2020 4756-4768*
- Min, L.**, see Xu, Y., *TPWRS March 2020 1109-1119*
- Mir, A.S.**, Bhasin, S., and Senroy, N., Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability; *TPWRS March 2020 1400-1410*
- Mishra, C.**, Biswas, R.S., Pal, A., and Centeno, V.A., Critical Clearing Time Sensitivity for Inequality Constrained Systems; *TPWRS March 2020 1572-1583*
- Mishra, S.**, see Sharma, R.K., *TPWRS Nov. 2020 4369-4382*
- Mitra, J.**, and Benidris, M., A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points; *TPWRS March 2020 1422-1431*
- Mitra, P.**, Ramasubramanian, D., Gaikwad, A., and Johns, J., Modeling the Aggregated Response of Variable Frequency Drives (VFDs) for Power System Dynamic Studies; *TPWRS July 2020 2631-2641*
- Mochamad, R.F.**, and Preece, R., Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems; *TPWRS Jan. 2020 63-74*
- Moeini, A.**, see Rimorov, D., *TPWRS Sept. 2020 3825-3834*
- Moeini, A.**, see Hajebrahimi, A., *TPWRS Sept. 2020 3706-3718*
- Mohammadi, A.**, see Safdarian, F., *TPWRS May 2020 1834-1845*
- Mohammadi, F.**, see Jafarishiadeh, F., *TPWRS Sept. 2020 4104-4107*
- Mohammadi, F.**, and Sahraei-Ardakani, M., Multidimensional Scenario Selection for Power Systems With Stochastic Failures; *TPWRS Nov. 2020 4528-4538*
- Mohan, S.**, see Varma, R.K., *TPWRS Nov. 2020 4251-4262*
- Mohandes, B.**, Acharya, S., Moursi, M.S.E., Al-Sumaiti, A.S., Doukas, H., and Sgouridis, S., Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems; *TPWRS July 2020 2642-2657*
- Mohapatra, A.**, see Panda, R.K., *TPWRS July 2020 3122-3132*
- Molzahn, D.K.**, see Lee, D., *TPWRS Sept. 2020 3648-3659*
- Moon, S.**, see Lee, G., *TPWRS July 2020 2804-2815*
- Moon, S.**, see Lee, J., *TPWRS Sept. 2020 4139*
- Moon, S.**, see Lee, G., *TPWRS Nov. 2020 4944-4947*
- Morales, J.M.**, see Zotti, G.D., *TPWRS May 2020 1868-1880*
- Morales, J.M.**, see Pineda, S., *TPWRS Sept. 2020 3695-3705*
- Morales, J.M.**, see Munoz, M.A., *TPWRS Sept. 2020 3753-3763*
- Morales-Espana, G.**, see Tejada-Arango, D.A., *TPWRS May 2020 2012-2023*
- Moreno, R.**, see Lagos, T., *TPWRS March 2020 1411-1421*
- Moreno-Centeno, E.**, see Brown, W.E., *TPWRS July 2020 2575-2585*
- Morren, J.**, see Roos, M.H., *TPWRS May 2020 2279-2288*
- Mou, Q.**, Ye, H., and Liu, Y., Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization; *TPWRS March 2020 1499-1508*
- Mou, Y.**, Papavasiliou, A., and Chevalier, P., A Bi-Level Optimization Formulation of Priority Service Pricing; *TPWRS July 2020 2493-2505*
- Moursi, M.S.E.**, see Kirakosyan, A., *TPWRS Jan. 2020 140-151*
- Moursi, M.S.E.**, see Ghosh, S., *TPWRS May 2020 1911-1922*
- Moursi, M.S.E.**, see Mohandes, B., *TPWRS July 2020 2642-2657*
- Moursi, M.S.E.**, see Ghosh, S., *TPWRS July 2020 3051-3064*
- Moursi, M.S.E.**, see Al Araifi, S.M., *TPWRS March 2020 1264-1273*
- Moursi, M.S.E.**, see Azman, S.K., *TPWRS Nov. 2020 4585-4598*
- Muljadi, E.**, see Gu, H., *TPWRS July 2020 3065-3077*
- Munoz, M.A.**, Morales, J.M., and Pineda, S., Feature-Driven Improvement of Renewable Energy Forecasting and Trading; *TPWRS Sept. 2020 3753-3763*
- Murad, M.A.A.**, see Jonsdottir, G.M., *TPWRS Sept. 2020 4112-4115*
- Murad, M.A.A.**, see Tzounas, G., *TPWRS Nov. 2020 4622-4631*
- Muyeen, S.M.**, see Oshnoei, A., *TPWRS Nov. 2020 4781-4791*

N

- Nadarajah, M.**, see Islam, M., *TPWRS March 2020 1120-1131*
- Nandanoori, S.P.**, Kundu, S., Du, W., Tuffner, F.K., and Schneider, K.P., Distributed Small-Signal Stability Conditions for Inverter-Based Unbalanced Microgrids; *TPWRS Sept. 2020 3981-3990*
- Napolitano, F.**, see Lilla, S., *TPWRS March 2020 1132-1142*
- Nasir, A.**, see Altun, T., *TPWRS Nov. 2020 4272-4284*
- Nasr, E.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Nazari, M.H.**, Wang, L.Y., Grijalva, S., and Egerstedt, M., Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations; *TPWRS July 2020 3192-3202*
- Nazari, M.H.**, Wang, L.Y., Grijalva, S., and Egerstedt, M., Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms; *TPWRS March 2020 1317-1326*
- Nazir, N.**, Racherla, P., and Almassalkhi, M., Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders; *TPWRS July 2020 2683-2692*
- Ndrio, M.**, see Alshehri, K., *TPWRS Sept. 2020 4067-4077*
- Negnevitsky, M.**, see Semshchikov, E., *TPWRS Sept. 2020 3719-3728*
- Netto, R.S.**, see Grusso, G., *TPWRS Jan. 2020 618-627*

- Neves, L.S.**, and Costa Alberto, L.F., On The Computation of The Locally Closest Bifurcation Point Considering Loading Uncertainties and Reactive Power Limits; *TPWRS Sept. 2020 3885-3894*
- Nguyen, H.T.**, Al-Sumaiti, A.S., Turitsyn, K., Li, Q., and El Moursi, M.S., Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands; *TPWRS Sept. 2020 3494-3505*
- Nguyen, P.H.**, see Roos, M.H., *TPWRS May 2020 2279-2288*
- Nguyen, Q.**, Lao, K., Vu, P., and Santoso, S., Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVac Power Systems; *TPWRS May 2020 1979-1989*
- Noland, J.K.**, see Oyvang, T., *TPWRS March 2020 1562-1571*
- Norrnga, S.**, see Jahn, I., *TPWRS July 2020 2949-2958*
- Nowak, S.**, Chen, Y.C., and Wang, L., Measurement-Based Optimal DER Dispatch With a Recursively Estimated Sensitivity Model; *TPWRS Nov. 2020 4792-4802*
- Nugroho, S.A.**, Taha, A.F., and Qi, J., Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees; *TPWRS May 2020 1923-1935*

O

- O'Connell, M.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- O'Donnell, T.**, see Chen, J., *TPWRS Sept. 2020 4131-4134*
- O'Malley, M.J.**, see Zhuo, Z., *TPWRS July 2020 2597-2608*
- O'Neill, R.**, see Eldridge, B., *TPWRS May 2020 1684-1694*
- Oh, S.**, see Shin, H., *TPWRS March 2020 1618-1626*
- Olmos, L.**, see Ploussard, Q., *TPWRS Jan. 2020 152-162*
- Olsen, D.J.**, and Kirschen, D.S., Profitable Emissions-Reducing Energy Storage; *TPWRS March 2020 1509-1519*
- Ordonez, F.**, see Lagos, T., *TPWRS March 2020 1411-1421*
- Ordoudis, C.**, see Pourahmadi, F., *TPWRS July 2020 2888-2903*
- Orozco, C.**, see Lilla, S., *TPWRS March 2020 1132-1142*
- Ortega, A.**, and Milano, F., Estimation of Voltage Dependent Load Models Through Power and Frequency Measurements; *TPWRS July 2020 3308-3311*
- Oshnoei, A.**, Kheradmandi, M., and Muyeen, S.M., Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control; *TPWRS Nov. 2020 4781-4791*
- Osipov, D.**, and Chow, J.H., PMU Missing Data Recovery Using Tensor Decomposition; *TPWRS Nov. 2020 4554-4563*
- Osipov, D.**, see Bogodorova, T., *TPWRS Nov. 2020 4968-4971*
- Overbye, T.J.**, see Klauber, C., *TPWRS Nov. 2020 4847-4855*
- Owusu-Mireku, R.**, Chiang, H., and Hin, M., A Dynamic Theory-Based Method for Computing Unstable Equilibrium Points of Power Systems; *TPWRS May 2020 1946-1955*
- Oyvang, T.**, Noland, J.K., Sharma, R., Heggli, G.J., and Lie, B., Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC; *TPWRS March 2020 1562-1571*
- Ozansoy, C.**, Performance Analysis of Skewness Methods for Asymmetry Detection in High Impedance Faults; *TPWRS Nov. 2020 4952-4955*

P

- Padhy, N.P.**, see Prasad, R., *TPWRS July 2020 3181-3191*
- Padmanabhan, N.**, Ahmed, M., and Bhattacharya, K., Battery Energy Storage Systems in Energy and Reserve Markets; *TPWRS Jan. 2020 215-226*
- Pal, A.**, see Mishra, C., *TPWRS March 2020 1572-1583*
- Pal, B.C.**, see Chen, Y., *TPWRS Nov. 2020 4632-4643*
- Palensky, P.**, see Pan, K., *TPWRS March 2020 1584-1596*
- Pan, C.**, see Lin, C., *TPWRS July 2020 2537-2548*
- Pan, G.**, see Qiu, H., *TPWRS Sept. 2020 3636-3647*
- Pan, K.**, Palensky, P., and Esfahani, P.M., From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security; *TPWRS March 2020 1584-1596*
- Pan, K.**, see Fathabad, A.M., *TPWRS Nov. 2020 4357-4368*
- Pan, X.**, see Jin, Y., *TPWRS May 2020 1769-1782*

- Panda, R.K.**, Mohapatra, A., and Srivastava, S.C., Online Estimation of System Inertia in a Power Network Utilizing Synchrophasor Measurements; *TPWRS July 2020 3122-3132*
- Pande, P.W.**, Chakrabarti, S., Srivastava, S.C., and Sarkar, S., A Clustering-Based Approach for Estimation of Low Frequency Oscillations in Power Systems; *TPWRS Nov. 2020 4666-4677*
- Pandey, S.**, Chanda, S., Srivastava, A.K., and Hovsopian, R.O., Resiliency-Driven Proactive Distribution System Reconfiguration With Synchrophasor Data; *TPWRS July 2020 2748-2758*
- Pandey, S.**, Srivastava, A.K., and Amidan, B.G., A Real Time Event Detection, Classification and Localization Using Synchrophasor Data; *TPWRS Nov. 2020 4421-4431*
- Pandzic, H.**, see Sepetanc, K., *TPWRS Jan. 2020 249-260*
- Pandzic, H.**, see Bruninx, K., *TPWRS March 2020 840-853*
- Panteli, M.**, see Lagos, T., *TPWRS March 2020 1411-1421*
- Paolone, M.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Paolone, M.**, see Derviskadic, A., *TPWRS July 2020 2971-2980*
- Paolone, M.**, see Zuo, Y., *TPWRS March 2020 1305-1316*
- Papadaskalopoulos, D.**, see Ye, Y., *TPWRS Jan. 2020 163-176*
- Papakonstantinou, A.**, see Thomas, D., *TPWRS July 2020 3087-3099*
- Papangelis, L.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Papavasiliou, A.**, see Bertrand, G., *TPWRS May 2020 2339-2350*
- Papavasiliou, A.**, see Mou, Y., *TPWRS July 2020 2493-2505*
- Parasidis, A.**, see Souxes, T., *TPWRS Sept. 2020 3627-3635*
- Pariso, A.**, see Zhao, T., *TPWRS Sept. 2020 3729-3738*
- Parizy, E.S.**, Bahrami, H.R., and Loparo, K.A., A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid; *TPWRS Sept. 2020 3421-3432*
- Park, B.**, Zhou, Z., Botterud, A., and Thimmapuram, P., Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty; *TPWRS Nov. 2020 4324-4334*
- Passo, A.**, see Eskandarpour, R., *TPWRS Sept. 2020 4135-4137*
- Paterakis, N.G.**, see Stappers, B., *TPWRS July 2020 3040-3050*
- Paturet, M.**, Markovic, U., Delikaraoglou, S., Vrettos, E., Aristidou, P., and Hug, G., Stochastic Unit Commitment in Low-Inertia Grids; *TPWRS Sept. 2020 3448-3458*
- Paul, A.**, Kamwa, I., and Joos, G., PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators; *TPWRS May 2020 1707-1717*
- Pei, M.**, see Yu, J., *TPWRS Nov. 2020 4912-4915*
- Peng, J.C.**, see Raman, G., *TPWRS May 2020 2082-2092*
- Peng, X.**, Yao, W., Yan, C., Wen, J., and Cheng, S., Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs; *TPWRS March 2020 962-974*
- Penido, D.R.R.**, see Beneteli, T.A.P., *TPWRS Jan. 2020 803-813*
- Peralta, D.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Pereira, L.**, see Hashmi, M.U., *TPWRS July 2020 2693-2703*
- Perera, S.**, see Majumder, S., *TPWRS March 2020 1231-1241*
- Perez-Rua, J.**, Stolpe, M., Das, K., and Cutululis, N.A., Global Optimization of Offshore Wind Farm Collection Systems; *TPWRS May 2020 2256-2267*
- Phadke, A.G.**, see Ma, J., *TPWRS Sept. 2020 3433-3447*
- Philhower, J.**, see Wan, W., *TPWRS Sept. 2020 3857-3868*
- Pierre, J.W.**, see Khan, M.A., *TPWRS Jan. 2020 415-423*
- Pileggi, L.**, see Jovicic, A., *TPWRS Sept. 2020 3790-3799*
- Pineda, S.**, Morales, J.M., and Jimenez-Cordero, A., Data-Driven Screening of Network Constraints for Unit Commitment; *TPWRS Sept. 2020 3695-3705*
- Pineda, S.**, see Munoz, M.A., *TPWRS Sept. 2020 3753-3763*
- Pinson, P.**, see Pourahmadi, F., *TPWRS July 2020 2888-2903*
- Pinson, P.**, see Thomas, D., *TPWRS July 2020 3087-3099*
- Pires, V.F.**, see Cordeiro, A., *TPWRS May 2020 2144-2154*
- Piya, P.**, see Gautam, P., *TPWRS July 2020 3236-3246*
- Ploussard, Q.**, Olmos, L., and Ramos, A., A Search Space Reduction Method for Transmission Expansion Planning Using an Iterative Refinement of the DC Load Flow Model; *TPWRS Jan. 2020 152-162*
- Pompodakis, E.E.**, Kryonidis, G.C., and Alexiadis, M.C., A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids; *TPWRS March 2020 1143-1155*

- Ponciroli, R.**, Stauff, N.E., Ramsey, J., Ganda, F., and Vilim, R.B., An Improved Genetic Algorithm Approach to the Unit Commitment/Economic Dispatch Problem; *TPWRS Sept. 2020 4005-4013*
- Ponocko, J.**, and Milanovic, J.V., Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation; *TPWRS May 2020 1822-1833*
- Popadic, B.**, see Strezoski, L.V., *TPWRS March 2020 1209-1217*
- Popovic, Z.N.**, Knezevic, S.D., and Brbaklic, B.S., A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators; *TPWRS Sept. 2020 3895-3905*
- Poudel, S.**, see Gandluru, A., *TPWRS Jan. 2020 605-617*
- Poulsen, N.K.**, see Zotti, G.D., *TPWRS May 2020 1868-1880*
- Pourahmadi, F.**, Kazempour, J., Ordoudis, C., Pinson, P., and Hosseini, S.H., Distributionally Robust Chance-Constrained Generation Expansion Planning; *TPWRS July 2020 2888-2903*
- Pourakbari-Kasmaei, M.**, Asensio, M., Lehtonen, M., and Contreras, J., Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach; *TPWRS Jan. 2020 346-361*
- Pourbabak, H.**, Alsafasfeh, Q., and Su, W., A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids; *TPWRS Sept. 2020 3506-3515*
- Pourmousavi, S.A.**, see Zotti, G.D., *TPWRS May 2020 1868-1880*
- Pozo, D.**, see Gonzalez-Castellanos, A.J., *TPWRS Jan. 2020 672-682*
- Pozo, D.**, see Velloso, A., *TPWRS Sept. 2020 3353-3365*
- Pradhan, A.K.**, see Mahish, P., *TPWRS Jan. 2020 362-373*
- Prasad, R.**, and Padhy, N.P., Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics; *TPWRS July 2020 3181-3191*
- Preece, R.**, see Mochamad, R.F., *TPWRS Jan. 2020 63-74*
- Preece, R.**, see Fradley, J., *TPWRS July 2020 2826-2834*
- Preston, E.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Prica, M.**, see Strezoski, L.V., *TPWRS March 2020 1209-1217*
- Prieto-Castrillo, F.**, see Gazafroudi, A.S., *TPWRS March 2020 1075-1084*
- Pulendran, S.**, and Tate, J.E., Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1; *TPWRS Jan. 2020 405-414*
- Pulgar-Painemal, H.**, see Wang, Y., *TPWRS Sept. 2020 4141*
- Pullaguram, D.**, see Sharma, R.K., *TPWRS Nov. 2020 4369-4382*
- Purba, V.**, Johnson, B.B., Jafarpour, S., Bullo, F., and Dhople, S.V., Dynamic Aggregation of Grid-Tied Three-Phase Inverters; *TPWRS March 2020 1520-1530*

Q

- Qi, J.**, see Nugroho, S.A., *TPWRS May 2020 1923-1935*
- Qian, H.**, see Zhang, Z., *TPWRS May 2020 2059-2071*
- Qin, J.**, see Li, F., *TPWRS Jan. 2020 516-526*
- Qin, J.**, Wan, Y., Yu, X., and Kang, Y., A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch; *TPWRS March 2020 986-996*
- Qin, Y.**, see Wan, W., *TPWRS Sept. 2020 3857-3868*
- Qiu, F.**, see Yao, R., *TPWRS March 2020 938-949*
- Qiu, F.**, see Yao, R., *TPWRS Nov. 2020 4960-4963*
- Qiu, F.**, see Fathabad, A.M., *TPWRS Nov. 2020 4357-4368*
- Qiu, G.**, see Liu, T., *TPWRS Sept. 2020 4088-4099*
- Qiu, H.**, Gu, W., Xu, Y., Yu, W., Pan, G., and Liu, P., Tri-Level Mixed-Integer Optimization for Two-Stage Microgrid Dispatch With Multi-Uncertainties; *TPWRS Sept. 2020 3636-3647*
- Qiu, H.**, see Liu, S., *TPWRS March 2020 1653-1656*
- Qiu, J.**, see Wang, Y., *TPWRS July 2020 3145-3157*
- Qiu, J.**, see Shen, W., *TPWRS Nov. 2020 4193-4205*
- Qiu, R.**, see Shi, X., *TPWRS March 2020 975-985*
- Qiu, R.C.**, see He, X., *TPWRS May 2020 1846-1855*
- Qiu, R.C.**, see Yang, H., *TPWRS Sept. 2020 3529-3540*
- Qiu, Y.**, Lin, J., Liu, F., and Song, Y., Explicit MPC Based on the Galerkin Method for AGC Considering Volatile Generations; *TPWRS Jan. 2020 462-473*

- Qiu, Y.**, Lin, J., Liu, F., Song, Y., Chen, G., and Ding, L., Stochastic Online Generation Control of Cascaded Run-of-the-River Hydropower for Mitigating Solar Power Volatility; *TPWRS Nov. 2020 4709-4722*
- Qu, G.**, and Li, N., Optimal Distributed Feedback Voltage Control Under Limited Reactive Power; *TPWRS Jan. 2020 315-331*
- Qu, S.**, see Zeng, F., *TPWRS July 2020 3301-3304*

R

- Rabiee, A.**, see Eshkaftaki, A.A., *TPWRS May 2020 2351-2361*
- Racherla, P.**, see Nazir, N., *TPWRS July 2020 2683-2692*
- Raman, G.**, and Peng, J.C., Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems; *TPWRS May 2020 2082-2092*
- Ramasubramanian, D.**, see Mitra, P., *TPWRS July 2020 2631-2641*
- Ramos, A.**, see Ploussard, Q., *TPWRS Jan. 2020 152-162*
- Ramos, A.**, see Tejada-Arango, D.A., *TPWRS July 2020 2926-2936*
- Ramos, R.A.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Ramsey, J.**, see Ponciroli, R., *TPWRS Sept. 2020 4005-4013*
- Ramyar, S.**, Liu, A.L., and Chen, Y., Power Market Model in Presence of Strategic Prosumers; *TPWRS March 2020 898-908*
- Ranjbar, A.M.**, see Hosseini, S.A., *TPWRS May 2020 2037-2046*
- Rastegar, M.**, see Sharifinia, S., *TPWRS Jan. 2020 818-820*
- Ravishankar, J.**, see Karunanayake, C., *TPWRS March 2020 1156-1165*
- Ray Chaudhuri, N.**, see Chatterjee, K., *TPWRS Nov. 2020 4723-4733*
- Rehtanz, C.**, see Jin, Y., *TPWRS May 2020 1769-1782*
- Reilly, J.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Ren, C.**, and Xu, Y., Transfer Learning-Based Power System Online Dynamic Security Assessment: Using One Model to Assess Many Unlearned Faults; *TPWRS Jan. 2020 821-824*
- Rergis, C.M.**, see Rimorov, D., *TPWRS Sept. 2020 3825-3834*
- Rho, Y.**, see Yamashita, K., *TPWRS Nov. 2020 4206-4219*
- Rider, M.J.**, see Shen, F., *TPWRS May 2020 2190-2199*
- Rimorov, D.**, Rergis, C.M., Kamwa, I., Moeini, A., Huang, J., Darvishi, A., and Fardanesh, B., Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification; *TPWRS Sept. 2020 3825-3834*
- Risanger, S.**, Fleten, S., and Gabriel, S.A., Inverse Equilibrium Analysis of Oligopolistic Electricity Markets; *TPWRS Nov. 2020 4159-4166*
- Roald, L.A.**, see Lee, D., *TPWRS Sept. 2020 3648-3659*
- Robak, S.**, Machowski, J., Skwarski, M., and Januszewski, M., Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures; *TPWRS May 2020 2422-2430*
- Roca, I.L.**, and Carvalho, P.M.S., Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics; *TPWRS Jan. 2020 284-292*
- Roitershtein, A.**, see Zhou, K., *TPWRS July 2020 3224-3235*
- Roos, M.H.**, Nguyen, P.H., Morren, J., and Slootweg, J.G., Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations; *TPWRS May 2020 2279-2288*
- Rosehart, W.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Rosendo-Macias, J.A.**, see Gonzalez-Cagigal, M.A., *TPWRS May 2020 1796-1804*
- Rotaru, M.D.**, see Deng, Z., *TPWRS March 2020 831-839*
- Rouco, L.**, see Doenges, K., *TPWRS July 2020 2816-2825*
- Roumkos, C.G.**, see Marneris, I.G., *TPWRS Jan. 2020 293-303*
- Rousis, A.O.**, Konstantelos, I., and Strbac, G., A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm; *TPWRS Jan. 2020 227-237*
- Ruan, H.**, Gao, H., Liu, Y., Wang, L., and Liu, J., Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method; *TPWRS Nov. 2020 4220-4231*
- Rudnick, H.**, see Lagos, T., *TPWRS March 2020 1411-1421*
- Ryu, S.**, Choi, H., Lee, H., and Kim, H., Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis; *TPWRS March 2020 1048-1060*

S

- Saavedra, R.**, Street, A., and Arroyo, J.M., Day-Ahead Contingency-Constrained Unit Commitment With Co-Optimized Post-Contingency Transmission Switching; *TPWRS Nov. 2020 4408-4420*
- Saber, H.**, see Hajipour, E., *TPWRS March 2020 909-919*
- Sacaan, R.**, see Lagos, T., *TPWRS March 2020 1411-1421*
- Sadabadi, M.S.**, and Shafiee, Q., Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads; *TPWRS Jan. 2020 508-515*
- Saeedifard, M.**, see Mehrabankhomartash, M., *TPWRS Jan. 2020 177-187*
- Safdarian, F.**, Mohammadi, A., and Kargarian, A., Temporal Decomposition for Security-Constrained Unit Commitment; *TPWRS May 2020 1834-1845*
- Saghafi, H.**, see Aghili, S.J., *TPWRS Jan. 2020 42-52*
- Saha, S.**, see Schweitzer, E., *TPWRS May 2020 1758-1768*
- Saha, T.K.**, see Gu, H., *TPWRS July 2020 3065-3077*
- Sahraei-Ardakani, M.**, see Jafarishadeh, F., *TPWRS Sept. 2020 4104-4107*
- Sahraei-Ardakani, M.**, see Mohammadi, F., *TPWRS Nov. 2020 4528-4538*
- Sanchez-Martin, P.**, see Tejada-Arango, D.A., *TPWRS July 2020 2926-2936*
- Santos, J.A.d.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Santoso, S.**, see Nguyen, Q., *TPWRS May 2020 1979-1989*
- Sarkar, S.**, see Pande, P.W., *TPWRS Nov. 2020 4666-4677*
- Sasaki, Y.**, see Bedawy, A., *TPWRS March 2020 1023-1035*
- Sass, F.**, Sennewald, T., and Westermann, D., Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme; *TPWRS Jan. 2020 385-394*
- Sauer, P.**, see Ajala, O., *TPWRS Nov. 2020 4803-4814*
- Sauer, P.W.**, see Xu, H., *TPWRS May 2020 1990-2001*
- Sauer, P.W.**, see Xu, H., *TPWRS May 2020 2133-2143*
- Saxena, S.**, and Fridman, E., Event-Triggered Load Frequency Control via Switching Approach; *TPWRS Nov. 2020 4484-4494*
- Scaglione, A.**, see Schweitzer, E., *TPWRS May 2020 1758-1768*
- Schenk, O.**, see Kardos, J., *TPWRS March 2020 1340-1350*
- Schilling, M.T.**, see da Silva Neto, C.A., *TPWRS Jan. 2020 487-495*
- Schipper, J.**, Wood, A., and Edwards, C., Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology; *TPWRS Sept. 2020 3953-3960*
- Schipper, J.**, Wood, A., and Edwards, C., Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part II: Implications; *TPWRS Sept. 2020 3961-3969*
- Schiro, D.A.**, see Yan, B., *TPWRS Jan. 2020 782-794*
- Schneider, K.P.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Schneider, K.P.**, see Nandanoori, S.P., *TPWRS Sept. 2020 3981-3990*
- Schweitzer, E.**, Saha, S., Scaglione, A., Johnson, N.G., and Arnold, D., Lossy DistFlow Formulation for Single and Multiphase Radial Feeders; *TPWRS May 2020 1758-1768*
- Sedzro, K.S.**, see Fang, X., *TPWRS July 2020 2561-2574*
- Sekhvatmanesh, H.**, and Cherkaoui, R., A Novel Decomposition Solution Approach for the Restoration Problem in Distribution Networks; *TPWRS Sept. 2020 3810-3824*
- Semshchikov, E.**, Negnevitsky, M., Hamilton, J., and Wang, X., Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems; *TPWRS Sept. 2020 3719-3728*
- Sennewald, T.**, see Sass, F., *TPWRS Jan. 2020 385-394*
- Senroy, N.**, see Brahma, D., *TPWRS Sept. 2020 3470-3480*
- Senroy, N.**, see Ahmad, T., *TPWRS Sept. 2020 4124-4126*
- Senroy, N.**, see Ahmad, T., *TPWRS March 2020 920-928*
- Senroy, N.**, see Ahmad, T., *TPWRS March 2020 1642-1645*
- Senroy, N.**, see Mir, A.S., *TPWRS March 2020 1400-1410*
- Sepetanc, K.**, and Pandzic, H., A Cluster-Based Operation Model of Aggregated Battery Swapping Stations; *TPWRS Jan. 2020 249-260*
- Sgouridis, S.**, see Mohandes, B., *TPWRS July 2020 2642-2657*
- Shafie-Khah, M.**, see Gazafroudi, A.S., *TPWRS March 2020 1075-1084*
- Shafie-khah, M.**, see Cao, Y., *TPWRS Nov. 2020 4908-4911*
- Shafiee, Q.**, see Sadabadi, M.S., *TPWRS Jan. 2020 508-515*
- Shah, J.**, see Malekpour, A.R., *TPWRS March 2020 854-863*
- Shahidehpour, M.**, see Zhou, Q., *TPWRS Jan. 2020 474-486*
- Shahidehpour, M.**, see Wu, X., *TPWRS Jan. 2020 374-384*
- Shahidehpour, M.**, see Zhou, Y., *TPWRS May 2020 2388-2398*
- Shahidehpour, M.**, see Feng, C., *TPWRS May 2020 1729-1740*
- Shahidehpour, M.**, see Zhou, Q., *TPWRS May 2020 2452-2462*
- Shahidehpour, M.**, see Shen, F., *TPWRS May 2020 1718-1728*
- Shahidehpour, M.**, see Zhou, Y., *TPWRS May 2020 2155-2166*
- Shahidehpour, M.**, see Zhou, Q., *TPWRS July 2020 3004-3014*
- Shahidehpour, M.**, see Zhou, Q., *TPWRS Sept. 2020 3847-3856*
- Shahidehpour, M.**, see Zhou, Q., *TPWRS March 2020 1294-1304*
- Shahidehpour, M.**, see Zhou, Q., *TPWRS March 2020 1389-1399*
- Shahnia, F.**, see Feng, C., *TPWRS May 2020 1729-1740*
- Shang, Y.**, Wu, W., Liao, J., Guo, J., Su, J., Liu, W., and Huang, Y., Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search; *TPWRS Sept. 2020 3940-3952*
- Shao, C.**, see Guo, L., *TPWRS May 2020 2300-2312*
- Sharifinia, S.**, Rastegar, M., Allahbakhshi, M., and Fotuhi-Firuzabad, M., Inverse Reliability Evaluation in Power Distribution Systems; *TPWRS Jan. 2020 818-820*
- Sharma, R.**, see Oyvang, T., *TPWRS March 2020 1562-1571*
- Sharma, R.K.**, Mishra, S., and Pullaguram, D., A Robust H_∞ Multivariable Stabilizer Design for Droop Based Autonomous AC Microgrid; *TPWRS Nov. 2020 4369-4382*
- Sharma, S.**, Majumdar, A., Elvira, V., and Chouzenoux, E., Blind Kalman Filtering for Short-Term Load Forecasting; *TPWRS Nov. 2020 4916-4919*
- Shen, C.**, see Yang, P., *TPWRS May 2020 2313-2324*
- Shen, F.**, Lopez, J.C., Wu, Q., Rider, M.J., Lu, T., and Hatziargyriou, N.D., Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers; *TPWRS May 2020 2190-2199*
- Shen, F.**, Ju, P., Shahidehpour, M., Li, Z., Wang, C., and Shi, X., Singular Perturbation for the Dynamic Modeling of Integrated Energy Systems; *TPWRS May 2020 1718-1728*
- Shen, F.**, see Zhao, J., *TPWRS Sept. 2020 3516-3528*
- Shen, J.**, see Liu, L., *TPWRS July 2020 2527-2536*
- Shen, W.**, Qiu, J., Meng, K., Chen, X., and Dong, Z.Y., Low-Carbon Electricity Network Transition Considering Retirement of Aging Coal Generators; *TPWRS Nov. 2020 4193-4205*
- Shen, Y.**, see Ma, J., *TPWRS Sept. 2020 3433-3447*
- Sheng, G.**, see Zhou, N., *TPWRS March 2020 1479-1488*
- Shetye, K.**, see Klauber, C., *TPWRS Nov. 2020 4847-4855*
- Shi, D.**, see Duan, J., *TPWRS Jan. 2020 814-817*
- Shi, D.**, see Wang, S., *TPWRS Nov. 2020 4644-4654*
- Shi, L.**, see Mak, T.W.K., *TPWRS March 2020 1627-1637*
- Shi, M.**, Chen, X., Zhou, J., Chen, Y., Wen, J., and He, H., PI-Consensus Based Distributed Control of AC Microgrids; *TPWRS May 2020 2268-2278*
- Shi, Q.**, see Zhao, M., *TPWRS May 2020 2176-2189*
- Shi, W.**, see Yu, J., *TPWRS Nov. 2020 4912-4915*
- Shi, X.**, see Shen, F., *TPWRS May 2020 1718-1728*
- Shi, X.**, see Yang, H., *TPWRS Sept. 2020 3529-3540*
- Shi, X.**, Qiu, R., Mi, T., He, X., and Zhu, Y., Adversarial Feature Learning of Online Monitoring Data for Operational Risk Assessment in Distribution Networks; *TPWRS March 2020 975-985*
- Shim, J.W.**, Verbic, G., and Hur, K., Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes; *TPWRS Nov. 2020 4655-4665*
- Shin, H.**, Jung, J., Oh, S., Hur, K., Iba, K., and Lee, B., Evaluating the Influence of Momentary Cessation Mode in Inverter-Based Distributed Generators on Power System Transient Stability; *TPWRS March 2020 1618-1626*
- Shin, Y.**, see Kim, D., *TPWRS Jan. 2020 75-84*
- Shotorbani, A.M.**, see Zhang, Y., *TPWRS Sept. 2020 3739-3752*
- Siano, P.**, see Hui, H., *TPWRS Jan. 2020 332-345*
- Sidiropoulos, N.D.**, see Zamzam, A.S., *TPWRS Nov. 2020 4347-4356*
- Sigrist, L.**, see Doenges, K., *TPWRS July 2020 2816-2825*
- Silva, A.R.**, and Estanqueiro, A., Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy; *TPWRS March 2020 1274-1283*
- Silva-Saravia, H.**, see Wang, Y., *TPWRS Sept. 2020 4141*
- Simoes Costa, A.**, see Bez, D.M., *TPWRS Nov. 2020 4432-4444*
- Simpson-Porco, J.W.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*

- Singh, C.**, see Wang, Y., *TPWRS Jan. 2020 551-559*
- Sioshansi, R.**, see Chen, S., *TPWRS Jan. 2020 662-671*
- Sioshansi, R.**, see Chen, S., *TPWRS May 2020 1956-1966*
- Sioshansi, R.**, see Chen, S., *TPWRS July 2020 2736-2747*
- Skwarski, M.**, see Robak, S., *TPWRS May 2020 2422-2430*
- Slootweg, J.G.**, see Roos, M.H., *TPWRS May 2020 2279-2288*
- Smith, C.**, see Zhuo, Z., *TPWRS July 2020 2597-2608*
- Soder, L.**, see Herre, L., *TPWRS Sept. 2020 3970-3980*
- Solares, C.**, see Herrero, H., *TPWRS March 2020 1638-1641*
- Song, D.**, see Yu, J., *TPWRS May 2020 1967-1978*
- Song, Y.**, see Qiu, Y., *TPWRS Jan. 2020 462-473*
- Song, Y.**, see Hui, H., *TPWRS Jan. 2020 332-345*
- Song, Y.**, see Zheng, Y., *TPWRS Jan. 2020 273-283*
- Song, Y.**, see Zhao, C., *TPWRS Jan. 2020 424-439*
- Song, Y.**, Zheng, Y., Liu, T., Lei, S., and Hill, D.J., A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation; *TPWRS Jan. 2020 496-507*
- Song, Y.**, see Cao, Z., *TPWRS May 2020 1881-1897*
- Song, Y.**, see Zhao, C., *TPWRS May 2020 2467-2470*
- Song, Y.**, see Wan, C., *TPWRS Sept. 2020 3869-3884*
- Song, Y.**, see Tang, K., *TPWRS Nov. 2020 4836-4846*
- Song, Y.**, Zheng, Y., Liu, T., Lei, S., and Hill, D.J., Closure to Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation" *TPWRS Nov. 2020 4975-4976*
- Song, Y.**, see Qiu, Y., *TPWRS Nov. 2020 4709-4722*
- Soukes, T.**, Parasidis, A., and Vournas, C.D., Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support; *TPWRS Sept. 2020 3627-3635*
- Srikantha, P.**, and Mallick, M., Hidden Convexities in Decentralized Coordination for the Distribution Networks; *TPWRS Nov. 2020 4470-4483*
- Srivastava, A.K.**, see Pandey, S., *TPWRS July 2020 2748-2758*
- Srivastava, A.K.**, see Pandey, S., *TPWRS Nov. 2020 4421-4431*
- Srivastava, S.C.**, see Panda, R.K., *TPWRS July 2020 3122-3132*
- Srivastava, S.C.**, see Pande, P.W., *TPWRS Nov. 2020 4666-4677*
- Staid, A.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Stappers, B.**, Paterakis, N.G., Kok, K., and Gibescu, M., A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction; *TPWRS July 2020 3040-3050*
- Stauff, N.E.**, see Ponciroli, R., *TPWRS Sept. 2020 4005-4013*
- Stefopoulos, G.**, see Chatterjee, K., *TPWRS Nov. 2020 4723-4733*
- Stephen, G.**, see Barrows, C., *TPWRS Jan. 2020 119-127*
- Stolpe, M.**, see Perez-Rua, J., *TPWRS May 2020 2256-2267*
- Strbac, G.**, see Rousis, A.O., *TPWRS Jan. 2020 227-237*
- Strbac, G.**, see Ye, Y., *TPWRS Jan. 2020 163-176*
- Strbac, G.**, see Sun, M., *TPWRS Jan. 2020 188-201*
- Strbac, G.**, see Malekpour, M., *TPWRS March 2020 997-1008*
- Strbac, G.**, see Badesa, L., *TPWRS Nov. 2020 4459-4469*
- Street, A.**, see Velloso, A., *TPWRS Sept. 2020 3353-3365*
- Street, A.**, see Saavedra, R., *TPWRS Nov. 2020 4408-4420*
- Strezoski, L.V.**, Dumnic, B., Popadic, B., Prica, M., and Loparo, K.A., Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation; *TPWRS March 2020 1209-1217*
- Strunz, K.**, see Xia, Y., *TPWRS May 2020 2120-2132*
- Su, H.**, and Hong, H., A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation; *TPWRS July 2020 3262-3265*
- Su, J.**, see Shang, Y., *TPWRS Sept. 2020 3940-3952*
- Su, M.**, see Yu, J., *TPWRS May 2020 1967-1978*
- Su, M.**, see Liu, Z., *TPWRS Sept. 2020 4100-4103*
- Su, W.**, see Pourbabak, H., *TPWRS Sept. 2020 3506-3515*
- Su, Y.**, see Tan, M., *TPWRS July 2020 2937-2948*
- Subramanyam, S.A.**, and Zhang, X., Effect of Loss of Load Probability Distribution on Operating Reserve Demand Curve Performance in Energy-Only Electricity Market; *TPWRS July 2020 3297-3300*
- Sun, C.**, see Jia, Y., *TPWRS May 2020 2245-2255*
- Sun, G.**, see Zhou, Y., *TPWRS May 2020 2388-2398*
- Sun, G.**, see Zhou, Y., *TPWRS May 2020 2155-2166*
- Sun, K.**, see Zhang, Z., *TPWRS May 2020 1856-1867*
- Sun, K.**, see Liu, Y., *TPWRS May 2020 2289-2299*
- Sun, K.**, see Xu, Y., *TPWRS July 2020 2783-2793*
- Sun, K.**, see Yao, R., *TPWRS March 2020 938-949*
- Sun, L.**, see Liu, W., *TPWRS March 2020 1432-1445*
- Sun, L.**, see Zhang, M., *TPWRS Nov. 2020 4920-4923*
- Sun, M.**, Zhang, T., Wang, Y., Strbac, G., and Kang, C., Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting; *TPWRS Jan. 2020 188-201*
- Sun, M.**, see Azizi, S., *TPWRS Nov. 2020 4948-4951*
- Sun, X.**, see Xiao, H., *TPWRS July 2020 2863-2875*
- Sun, Y.**, see Wang, Y., *TPWRS Jan. 2020 691-702*
- Sun, Y.**, see Liu, Z., *TPWRS Sept. 2020 4100-4103*
- Sun, Y.**, see Li, C., *TPWRS March 2020 950-961*
- Suryanarayana, G.**, see Torbaghan, S.S., *TPWRS Jan. 2020 98-108*
- Syed, M.H.**, Guillo-Sansano, E., Mehri-Sani, A., and Burt, G.M., Load Frequency Control in Variable Inertia Systems; *TPWRS Nov. 2020 4904-4907*
- Sykulski, J.K.**, see Deng, Z., *TPWRS March 2020 831-839*

T

- Taha, A.F.**, see Nugroho, S.A., *TPWRS May 2020 1923-1935*
- Tai, N.**, see Li, M., *TPWRS Jan. 2020 594-604*
- Tai, N.**, see Li, M., *TPWRS July 2020 3316*
- Tai, X.**, see Li, Z., *TPWRS Sept. 2020 3991-4004*
- Tai, X.**, see Li, Z., *TPWRS March 2020 1457-1467*
- Tamimi, B.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Tamrakar, U.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Tamura, J.**, see Koiwa, K., *TPWRS July 2020 2586-2596*
- Tan, J.**, see Gu, H., *TPWRS July 2020 3065-3077*
- Tan, M.**, Yuan, S., Li, S., Su, Y., Li, H., and He, F.H., Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning; *TPWRS July 2020 2937-2948*
- Tan, Y.**, Chen, Y., Li, Y., and Cao, Y., Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach; *TPWRS May 2020 2475-2478*
- Tan, Z.**, Zhong, H., Xia, Q., Kang, C., Wang, X.S., and Tang, H., Estimating the Robust P-Q Capability of a Technical Virtual Power Plant Under Uncertainties; *TPWRS Nov. 2020 4285-4296*
- Tang, F.**, see Liu, J., *TPWRS July 2020 2619-2630*
- Tang, H.**, see Tan, Z., *TPWRS Nov. 2020 4285-4296*
- Tang, J.**, see Chen, X., *TPWRS Jan. 2020 85-97*
- Tang, K.**, Dong, S., and Song, Y., Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks; *TPWRS Nov. 2020 4836-4846*
- Tao, Y.**, see Wang, Y., *TPWRS July 2020 3145-3157*
- Taranto, G.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Tate, J.E.**, see Pulendran, S., *TPWRS Jan. 2020 405-414*
- Tate, J.E.**, see Dai, Z., *TPWRS March 2020 1597-1605*
- Tedeschi, E.**, see Brandao, D.I., *TPWRS July 2020 3258-3261*
- Tejada-Arango, D.A.**, Morales-Espana, G., Wogrin, S., and Centeno, E., Power-Based Generation Expansion Planning for Flexibility Requirements; *TPWRS May 2020 2012-2023*
- Tejada-Arango, D.A.**, Lumbreras, S., Sanchez-Martin, P., and Ramos, A., Which Unit-Commitment Formulation is Best? A Comparison Framework; *TPWRS July 2020 2926-2936*
- Tejedor-Aguilera, J.**, see Buzau, M., *TPWRS March 2020 1254-1263*
- Ten, C.**, see Yamashita, K., *TPWRS Nov. 2020 4206-4219*
- Teng, F.**, see Chu, Z., *TPWRS Sept. 2020 4056-4066*
- Teng, F.**, see Malekpour, M., *TPWRS March 2020 997-1008*
- Teng, F.**, see Badesa, L., *TPWRS Nov. 2020 4459-4469*
- Teng, F.**, see Zhang, Z., *TPWRS Nov. 2020 4383-4395*
- Terzija, V.**, see Azizipناه-Abarghoee, R., *TPWRS March 2020 1198-1208*
- Terzija, V.**, see Malekpour, M., *TPWRS March 2020 997-1008*
- Terzija, V.**, see Li, C., *TPWRS March 2020 950-961*
- Terzija, V.**, see Azizi, S., *TPWRS Nov. 2020 4948-4951*

- Thams, F.**, Venzke, A., Eriksson, R., and Chatzivasileiadis, S., Efficient Database Generation for Data-Driven Security Assessment of Power Systems; *TPWRS Jan. 2020 30-41*
- Thimmapuram, P.**, see Park, B., *TPWRS Nov. 2020 4324-4334*
- Thirumalaivasan, R.**, see Velpula, S., *TPWRS Nov. 2020 4745-4755*
- Thomas, D.**, Kazempour, J., Papakonstantinou, A., Pinson, P., Deblecker, O., and Ioakimidis, C.S., A Local Market Mechanism for Physical Storage Rights; *TPWRS July 2020 3087-3099*
- Thomas, O.**, see Ugwuanyi, N.S., *TPWRS July 2020 3247-3257*
- Tian, Z.**, see Zhou, Q., *TPWRS May 2020 2452-2462*
- Tindemans, S.H.**, see Evans, M.P., *TPWRS Sept. 2020 4144*
- Ting, T.**, see Liu, B., *TPWRS Nov. 2020 4856-4869*
- Titov, S.V.**, see Zarifakis, M., *TPWRS Jan. 2020 795-802*
- Tomlin, C.**, see Dobbe, R., *TPWRS May 2020 1674-1683*
- Tong, W.**, see Xiao, T., *TPWRS Jan. 2020 304-314*
- Tong, W.**, see Xiao, T., *TPWRS Jan. 2020 539-550*
- Tonkoski, R.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Torbaghan, S.S.**, Suryanarayana, G., Hoschle, H., D'hulst, R., Geth, F., Caerts, C., and Van Hertem, D., Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows; *TPWRS Jan. 2020 98-108*
- Tosatto, A.**, Weckesser, T., and Chatzivasileiadis, S., Market Integration of HVDC Lines: Internalizing HVDC Losses in Market Clearing; *TPWRS Jan. 2020 451-461*
- Tossani, F.**, see Lilla, S., *TPWRS March 2020 1132-1142*
- Tostado-Veliz, M.**, Kamel, S., and Jurado, F., Power Flow Approach Based on the S-Iteration Process; *TPWRS Nov. 2020 4148-4158*
- Toubeau, J.**, see Bottieau, J., *TPWRS March 2020 1218-1230*
- Toulabi, M.**, see Hosseini, S.A., *TPWRS May 2020 2037-2046*
- Trakas, D.N.**, and Hatziaargyriou, N.D., Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events; *TPWRS March 2020 1242-1253*
- Trindade, F.C.L.**, see Ferreira, T.S.D., *TPWRS Sept. 2020 3671-3681*
- Trinh, H.**, see Yu, S.S., *TPWRS July 2020 2670-2682*
- Trudnowski, D.J.**, and Guttromson, R., A Strategy for Forced Oscillation Suppression; *TPWRS Nov. 2020 4699-4708*
- Trzynadlowski, A.M.**, see Chitsazan, M.A., *TPWRS Jan. 2020 238-248*
- Tuffner, F.K.**, see Farrokhhabadi, M., *TPWRS Jan. 2020 13-29*
- Tuffner, F.K.**, see Nandanoori, S.P., *TPWRS Sept. 2020 3981-3990*
- Turitsyn, K.**, see Wu, D., *TPWRS July 2020 2915-2925*
- Turitsyn, K.**, see Nguyen, H.T., *TPWRS Sept. 2020 3494-3505*
- Turitsyn, K.**, see Chevalier, S., *TPWRS Sept. 2020 3588-3602*
- Turitsyn, K.**, see Lee, D., *TPWRS Sept. 2020 3648-3659*
- Tzounas, G.**, Dassios, I., and Milano, F., Modal Participation Factors of Algebraic Variables; *TPWRS Jan. 2020 742-750*
- Tzounas, G.**, Dassios, I., Murad, M.A.A., and Milano, F., Theory and Implementation of Fractional Order Controllers for Power System Applications; *TPWRS Nov. 2020 4622-4631*
- U**
- Ugwuanyi, N.S.**, Kestelyn, X., Thomas, O., Marinescu, B., and Messina, A.R., A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form; *TPWRS July 2020 3247-3257*
- Utschick, W.**, see Hotz, M., *TPWRS March 2020 1036-1047*
- V**
- Vahidi, B.**, see Choopani, M., *TPWRS Jan. 2020 527-538*
- Vallee, F.**, see Bottieau, J., *TPWRS March 2020 1218-1230*
- Van Cutsem, T.**, Glavic, M., Rosehart, W., Canizares, C., Kanatas, M., Lima, L., Milano, F., Papangelis, L., Ramos, R.A., Santos, J.A.d., Tamimi, B., Taranto, G., and Vournas, C., Test Systems for Voltage Stability Studies; *TPWRS Sept. 2020 4078-4087*
- Van Hentenryck, P.**, see Byeon, G., *TPWRS March 2020 1327-1339*
- Van Hentenryck, P.**, see Mak, T.W.K., *TPWRS March 2020 1627-1637*
- Van Hertem, D.**, see Torbaghan, S.S., *TPWRS Jan. 2020 98-108*
- van Westering, W.**, see Dobbe, R., *TPWRS May 2020 1674-1683*
- Vanfretti, L.**, see Bogodorova, T., *TPWRS Nov. 2020 4968-4971*
- Varma, R.K.**, and Mohan, S., Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM; *TPWRS Nov. 2020 4251-4262*
- Veeravalli, V.V.**, see Xu, H., *TPWRS May 2020 2133-2143*
- Velloso, A.**, Pozo, D., and Street, A., Distributionally Robust Transmission Expansion Planning: A Multi-Scale Uncertainty Approach; *TPWRS Sept. 2020 3353-3365*
- Velpula, S.**, Thirumalaivasan, R., and Janaki, M., Stability Analysis on Torsional Interactions of Turbine-Generator Connected With DFIG-WECS Using Admittance Model; *TPWRS Nov. 2020 4745-4755*
- Vennelaganti, S.G.**, and Chaudhuri, N.R., Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support; *TPWRS Sept. 2020 3541-3551*
- Venzke, A.**, see Thams, F., *TPWRS Jan. 2020 30-41*
- Venzke, A.**, and Chatzivasileiadis, S., Correction to "Convex Relaxations of Probabilistic AC Optimal Power Flow for Interconnected AC and HVDC Grids" [Jul 19 2706-2718]; *TPWRS Sept. 2020 4143*
- Venzke, A.**, Halilbasic, L., Markovic, U., Hug, G., and Chatzivasileiadis, S., Correction to "Convex Relaxations of Chance Constrained AC Optimal Power Flow" [May 18 2829-2841]; *TPWRS Sept. 2020 4142*
- Verbic, G.**, see Shim, J.W., *TPWRS Nov. 2020 4655-4665*
- Vieira, J.C.M.**, see Ferreira, T.S.D., *TPWRS Sept. 2020 3671-3681*
- Vilim, R.B.**, see Ponciroli, R., *TPWRS Sept. 2020 4005-4013*
- Villanueva, J.M.M.**, see Meira de Andrade, P.H., *TPWRS Sept. 2020 3400-3409*
- Vittal, V.**, see Wang, Y., *TPWRS Jan. 2020 551-559*
- Vorobev, P.**, see Wu, D., *TPWRS July 2020 2915-2925*
- Vorobev, P.**, see Chevalier, S., *TPWRS Sept. 2020 3588-3602*
- Vournas, C.**, see Van Cutsem, T., *TPWRS Sept. 2020 4078-4087*
- Vournas, C.D.**, see Souxès, T., *TPWRS Sept. 2020 3627-3635*
- Vowles, D.J.**, see Gibbard, M.J., *TPWRS Nov. 2020 4495-4504*
- Vrettos, E.**, see Paturet, M., *TPWRS Sept. 2020 3448-3458*
- Vu, P.**, see Nguyen, Q., *TPWRS May 2020 1979-1989*
- W**
- Wahbah, M.**, Feng, S., EL-Fouly, T.H.M., and Zahawi, B., Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation; *TPWRS Jan. 2020 652-661*
- Wan, C.**, see Zhao, C., *TPWRS Jan. 2020 424-439*
- Wan, C.**, see Cao, Z., *TPWRS May 2020 1881-1897*
- Wan, C.**, see Zhao, C., *TPWRS May 2020 2467-2470*
- Wan, C.**, Zhao, C., and Song, Y., Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation; *TPWRS Sept. 2020 3869-3884*
- Wan, W.**, Bragin, M.A., Yan, B., Qin, Y., Philhower, J., Zhang, P., and Luh, P.B., Distributed and Asynchronous Active Fault Management for Networked Microgrids; *TPWRS Sept. 2020 3857-3868*
- Wan, Y.**, see Qin, J., *TPWRS March 2020 986-996*
- Wang, B.**, see Yang, Y., *TPWRS July 2020 2769-2782*
- Wang, C.**, see Shen, F., *TPWRS May 2020 1718-1728*
- Wang, C.**, see Kong, X., *TPWRS March 2020 1531-1538*
- Wang, F.**, see Chen, Y., *TPWRS Jan. 2020 711-720*
- Wang, F.**, see Liu, Y., *TPWRS May 2020 2200-2211*
- Wang, G.**, see Lu, X., *TPWRS May 2020 2212-2221*
- Wang, G.**, see Huang, L., *TPWRS July 2020 3282-3285*
- Wang, H.**, see Fang, S., *TPWRS May 2020 1783-1795*
- Wang, H.**, see Zhang, X., *TPWRS July 2020 2516-2526*
- Wang, H.**, see Zhao, J., *TPWRS July 2020 3213-3223*
- Wang, H.**, see Zhao, J., *TPWRS Sept. 2020 3516-3528*
- Wang, H.**, see Liu, W., *TPWRS Nov. 2020 4167-4179*
- Wang, H.F.**, see Du, W., *TPWRS May 2020 2093-2107*
- Wang, J.**, see Zhang, Y., *TPWRS Jan. 2020 762-772*
- Wang, J.**, see Xiao, T., *TPWRS Jan. 2020 304-314*
- Wang, J.**, see Xiao, T., *TPWRS Jan. 2020 539-550*
- Wang, J.**, see Zhang, Y., *TPWRS May 2020 2471-2474*
- Wang, J.**, see Wang, Z., *TPWRS Sept. 2020 3320-3331*
- Wang, J.**, see Zhao, T., *TPWRS Sept. 2020 4127-4130*

- Wang, J., see Yao, R., *TPWRS* March 2020 938-949
- Wang, J., see Zhou, S., *TPWRS* Nov. 2020 4232-4250
- Wang, J., see Ju, Y., *TPWRS* Nov. 2020 4896-4903
- Wang, L., see Liu, Z., *TPWRS* Jan. 2020 395-404
- Wang, L., see Zhang, X., *TPWRS* July 2020 2959-2970
- Wang, L., see Zhang, Y., *TPWRS* Sept. 2020 3739-3752
- Wang, L., see Liu, T., *TPWRS* Sept. 2020 4088-4099
- Wang, L., and Chiang, H., Group-Based Line Switching for Enhancing Contingency-Constrained Static Voltage Stability; *TPWRS* March 2020 1489-1498
- Wang, L., see Ruan, H., *TPWRS* Nov. 2020 4220-4231
- Wang, L., see Nowak, S., *TPWRS* Nov. 2020 4792-4802
- Wang, L., see Liu, W., *TPWRS* Nov. 2020 4167-4179
- Wang, L., see Yamashita, K., *TPWRS* Nov. 2020 4206-4219
- Wang, L.Y., see Nazari, M.H., *TPWRS* July 2020 3192-3202
- Wang, L.Y., see Nazari, M.H., *TPWRS* March 2020 1317-1326
- Wang, M., see Zhou, A., *TPWRS* Sept. 2020 3366-3377
- Wang, M., see Hao, Y., *TPWRS* March 2020 1166-1177
- Wang, M., see Zhou, S., *TPWRS* Nov. 2020 4232-4250
- Wang, P., see Guo, L., *TPWRS* May 2020 2300-2312
- Wang, P., Zhang, Z., Lee, W., Huang, Q., and Yi, J., Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydro-power Generator Stacks; *TPWRS* Sept. 2020 3388-3399
- Wang, P., see Zaery, M., *TPWRS* Sept. 2020 3410-3420
- Wang, P., see Zhang, H., *TPWRS* Sept. 2020 3682-3694
- Wang, P., see Liu, Z., *TPWRS* Sept. 2020 4100-4103
- Wang, Q., see Chen, K., *TPWRS* May 2020 2362-2373
- Wang, Q., see Ma, Z., *TPWRS* Sept. 2020 3800-3809
- Wang, Q., see Liu, S., *TPWRS* Sept. 2020 3574-3587
- Wang, Q., see Liu, S., *TPWRS* March 2020 1653-1656
- Wang, S., see Zhao, J., *TPWRS* May 2020 2443-2451
- Wang, S., see Zhou, N., *TPWRS* July 2020 3274-3277
- Wang, S., see Wang, Y., *TPWRS* March 2020 1178-1187
- Wang, S., Huang, R., Huang, Z., and Fan, R., A Robust Dynamic State Estimation Approach Against Model Errors Caused by Load Changes; *TPWRS* Nov. 2020 4518-4527
- Wang, S., Duan, J., Shi, D., Xu, C., Li, H., Diao, R., and Wang, Z., A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning; *TPWRS* Nov. 2020 4644-4654
- Wang, T., and Chiang, H., On the Holomorphic and Conjugate Properties for Holomorphic Embedding Methods for Solving Power Flow Equations; *TPWRS* July 2020 2506-2515
- Wang, W., Yao, W., Chen, C., Deng, X., and Liu, Y., Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data; *TPWRS* May 2020 2483-2486
- Wang, W., see Zaery, M., *TPWRS* Sept. 2020 3410-3420
- Wang, W., and Yu, N., Maximum Marginal Likelihood Estimation of Phase Connections in Power Distribution Systems; *TPWRS* Sept. 2020 3906-3917
- Wang, W., Jiang, L., Cao, Y., and Li, Y., A Parameter Alternating VSG Controller of VSC-MTDC Systems for Low Frequency Oscillation Damping; *TPWRS* Nov. 2020 4609-4621
- Wang, W., Xiong, X., Li, M., and Yu, R., A Flexible Control Strategy to Prevent Sending-End Power System From Transient Instability Under HVDC Repetitive Commutation Failures; *TPWRS* Nov. 2020 4445-4458
- Wang, X., see Wang, Y., *TPWRS* July 2020 3294-3296
- Wang, X., see Semshchikov, E., *TPWRS* Sept. 2020 3719-3728
- Wang, X.S., see Tan, Z., *TPWRS* Nov. 2020 4285-4296
- Wang, Y., Sun, Y., and Dinavahi, V., Robust Forecasting-Aided State Estimation for Power System Against Uncertainties; *TPWRS* Jan. 2020 691-702
- Wang, Y., Vittal, V., Abdi-Khorsand, M., and Singh, C., Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment; *TPWRS* Jan. 2020 551-559
- Wang, Y., see Sun, M., *TPWRS* Jan. 2020 188-201
- Wang, Y., see Yang, Z., *TPWRS* May 2020 2479-2482
- Wang, Y., see Hao, F., *TPWRS* July 2020 2726-2735
- Wang, Y., Qiu, J., Tao, Y., and Zhao, J., Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets; *TPWRS* July 2020 3145-3157
- Wang, Y., Xu, Y., Li, J., He, J., and Wang, X., On the Radiality Constraints for Distribution System Restoration and Reconfiguration Problems; *TPWRS* July 2020 3294-3296
- Wang, Y., Silva-Saravia, H., and Pulgar-Painemal, H., Closure to Discussion on "Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach" *TPWRS* Sept. 2020 4141
- Wang, Y., Lou, S., Wu, Y., and Wang, S., Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage; *TPWRS* March 2020 1178-1187
- Wang, Z., see Duan, J., *TPWRS* Jan. 2020 814-817
- Wang, Z., He, J., Xu, Y., and Zhang, F., Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing; *TPWRS* May 2020 1812-1821
- Wang, Z., see Yang, P., *TPWRS* May 2020 2313-2324
- Wang, Z., see Zhou, K., *TPWRS* July 2020 3224-3235
- Wang, Z., see Xie, R., *TPWRS* July 2020 2658-2669
- Wang, Z., see Bu, F., *TPWRS* July 2020 3133-3144
- Wang, Z., and Wang, J., A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability; *TPWRS* Sept. 2020 3320-3331
- Wang, Z., see Yuan, Y., *TPWRS* Sept. 2020 4026-4035
- Wang, Z., see Dehghanpour, K., *TPWRS* Sept. 2020 3835-3846
- Wang, Z., see Zhuo, Z., *TPWRS* March 2020 1061-1074
- Wang, Z., see Guo, Y., *TPWRS* Nov. 2020 4505-4517
- Wang, Z., see Wang, S., *TPWRS* Nov. 2020 4644-4654
- Wang, Z., see Liu, W., *TPWRS* Nov. 2020 4167-4179
- Watson, E.B., and Etemadi, A.H., Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation; *TPWRS* March 2020 929-937
- Watson, J., see Barrows, C., *TPWRS* Jan. 2020 119-127
- Webster, M.D., see Bukenberger, J.P., *TPWRS* March 2020 1099-1108
- Weckesser, T., see Tosatto, A., *TPWRS* Jan. 2020 451-461
- Wei, R., see Kong, W., *TPWRS* July 2020 3170-3180
- Wei, W., see Guo, Z., *TPWRS* July 2020 3305-3307
- Wei, W., see Cao, Y., *TPWRS* Nov. 2020 4908-4911
- Wei, W., see Yamashita, K., *TPWRS* Nov. 2020 4206-4219
- Wei, Z., see Chen, S., *TPWRS* Jan. 2020 662-671
- Wei, Z., see Chen, S., *TPWRS* May 2020 1956-1966
- Wei, Z., see Zhou, Y., *TPWRS* May 2020 2388-2398
- Wei, Z., see Zhou, Y., *TPWRS* May 2020 2155-2166
- Wei, Z., see Chen, S., *TPWRS* July 2020 2736-2747
- Weinhold, R., and Mieth, R., Fast Security-Constrained Optimal Power Flow Through Low-Impact and Redundancy Screening; *TPWRS* Nov. 2020 4574-4584
- Wen, F., see Feng, C., *TPWRS* May 2020 1729-1740
- Wen, F., see Zhang, Z., *TPWRS* May 2020 2059-2071
- Wen, F., see Liu, S., *TPWRS* March 2020 1653-1656
- Wen, J., see Shi, M., *TPWRS* May 2020 2268-2278
- Wen, J., see Zhang, M., *TPWRS* July 2020 3266-3269
- Wen, J., see Peng, X., *TPWRS* March 2020 962-974
- Wen, K., see Liu, L., *TPWRS* July 2020 2527-2536
- Wen, S., see Fang, S., *TPWRS* May 2020 1783-1795
- Westermann, D., see Sass, F., *TPWRS* Jan. 2020 385-394
- White, A., see Kim, D., *TPWRS* Jan. 2020 75-84
- White, S.E., see Liu, S., *TPWRS* Sept. 2020 3574-3587
- Wies, R.W., see Farrokhabadi, M., *TPWRS* Jan. 2020 13-29
- Wilches-Bernal, F., Byrne, R.H., and Lian, J., Damping of Inter-Area Oscillations via Modulation of Aggregated Loads; *TPWRS* May 2020 2024-2036
- Wogrin, S., see Tejada-Arango, D.A., *TPWRS* May 2020 2012-2023
- Wong, P.K., see Liu, B., *TPWRS* Nov. 2020 4856-4869
- Wong, V.W.S., see Kim, H., *TPWRS* Jan. 2020 639-651
- Wood, A., see Schipper, J., *TPWRS* Sept. 2020 3953-3960
- Wood, A., see Schipper, J., *TPWRS* Sept. 2020 3961-3969
- Wu, C., Gu, W., Bo, R., MehdipourPicha, H., Jiang, P., Wu, Z., Lu, S., and Yao, S., Energy Trading and Generalized Nash Equilibrium in Combined Heat and Power Market; *TPWRS* Sept. 2020 3378-3387

- Wu, D.**, Vorobev, P., Chevalier, S.C., and Turitsyn, K., Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation; *TPWRS July 2020 2915-2925*
- Wu, F.**, see Jin, Y., *TPWRS May 2020 1769-1782*
- Wu, H.**, Yuan, Y., and Ma, K., A Novel Probabilistic Method for Energy Loss Estimation Using Minimal Line Current Information; *TPWRS Nov. 2020 4928-4931*
- Wu, J.**, see Liu, C., *TPWRS March 2020 1468-1478*
- Wu, L.**, see Liu, Y., *TPWRS May 2020 2200-2211*
- Wu, L.**, see Liu, Y., *TPWRS Sept. 2020 4116-4119*
- Wu, Q.**, see Shen, F., *TPWRS May 2020 2190-2199*
- Wu, Q.**, see Zhao, J., *TPWRS July 2020 3213-3223*
- Wu, Q.**, see Zhang, M., *TPWRS July 2020 3266-3269*
- Wu, Q.**, see Zhao, J., *TPWRS Sept. 2020 3516-3528*
- Wu, Q.**, see Xu, D., *TPWRS Nov. 2020 4769-4780*
- Wu, S.**, Liu, Z., Li, Z., Zhang, H., and Hu, X., Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM; *TPWRS July 2020 3026-3039*
- Wu, W.**, see Yang, Y., *TPWRS July 2020 2769-2782*
- Wu, W.**, see Shang, Y., *TPWRS Sept. 2020 3940-3952*
- Wu, W.**, see Li, Z., *TPWRS Sept. 2020 3991-4004*
- Wu, W.**, see Li, Z., *TPWRS March 2020 1457-1467*
- Wu, X.**, Chen, X., Shahidehpour, M., Zhou, Q., and Fan, L., Distributed Cooperative Scheme for Forced Oscillation Location Identification in Power Systems; *TPWRS Jan. 2020 374-384*
- Wu, X.**, and Conejo, A.J., Security-Constrained ACOPT: Incorporating Worst Contingencies and Discrete Controllers; *TPWRS May 2020 1936-1945*
- Wu, X.**, see Zhou, Q., *TPWRS March 2020 1389-1399*
- Wu, Y.**, Barati, M., and Lim, G.J., A Pool Strategy of Microgrid in Power Distribution Electricity Market; *TPWRS Jan. 2020 3-12*
- Wu, Y.**, Barati, M., and Lim, G.J., Correction to "A Pool Strategy of Microgrid in Power Distribution Electricity Market" [Jan 20 3-12]; *TPWRS May 2020 2487*
- Wu, Y.**, see Wang, Y., *TPWRS March 2020 1178-1187*
- Wu, Y.**, see Li, C., *TPWRS March 2020 950-961*
- Wu, Z.**, see Wu, C., *TPWRS Sept. 2020 3378-3387*

X

- Xavier, F.**, see Kouki, M., *TPWRS July 2020 2759-2768*
- Xia, Q.**, see Guo, H., *TPWRS May 2020 1898-1910*
- Xia, Q.**, see Fang, X., *TPWRS July 2020 2794-2803*
- Xia, Q.**, see Ma, Z., *TPWRS Sept. 2020 3800-3809*
- Xia, Q.**, see Zhuo, Z., *TPWRS March 2020 1061-1074*
- Xia, Q.**, see Tan, Z., *TPWRS Nov. 2020 4285-4296*
- Xia, S.**, see Lu, X., *TPWRS May 2020 2212-2221*
- Xia, Y.**, and Strunz, K., Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance; *TPWRS May 2020 2120-2132*
- Xiang, J.**, see Ling, Y., *TPWRS Nov. 2020 4263-4271*
- Xiao, H.**, see Li, Y., *TPWRS May 2020 1741-1757*
- Xiao, H.**, Li, Y., and Sun, X., Strength Evaluation of Multi-Infed LCC-HVDC Systems Based on the Virtual Impedance Concept; *TPWRS July 2020 2863-2875*
- Xiao, T.**, Tong, W., and Wang, J., A New Fully Parallel BBDF Method in Transient Stability Simulations; *TPWRS Jan. 2020 304-314*
- Xiao, T.**, Tong, W., and Wang, J., Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations; *TPWRS Jan. 2020 539-550*
- Xie, L.**, see Huang, T., *TPWRS Sept. 2020 3927-3939*
- Xie, R.**, Chen, Y., Wang, Z., Mei, S., and Li, F., Online Periodic Coordination of Multiple Pulsed Loads on All-Electric Ships; *TPWRS July 2020 2658-2669*
- Xin, H.**, see Huang, L., *TPWRS July 2020 3282-3285*
- Xiong, X.**, see Wang, W., *TPWRS Nov. 2020 4445-4458*
- Xu, C.**, see Wang, S., *TPWRS Nov. 2020 4644-4654*
- Xu, D.**, see Hao, F., *TPWRS July 2020 2726-2735*
- Xu, D.**, see Zaery, M., *TPWRS Sept. 2020 3410-3420*
- Xu, D.**, see Li, W., *TPWRS March 2020 1606-1617*

- Xu, D.**, Zhou, B., Wu, Q., Chung, C.Y., Li, C., Huang, S., and Chen, S., Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems; *TPWRS Nov. 2020 4769-4780*
- Xu, H.**, Dominguez-Garcia, A.D., and Sauer, P.W., Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning; *TPWRS May 2020 1990-2001*
- Xu, H.**, Dominguez-Garcia, A.D., Veeravalli, V.V., and Sauer, P.W., Data-Driven Voltage Regulation in Radial Power Distribution Systems; *TPWRS May 2020 2133-2143*
- Xu, L.**, see Liu, T., *TPWRS Sept. 2020 4088-4099*
- Xu, X.**, Li, J., Xu, Y., Xu, Z., and Lai, C.S., A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism; *TPWRS Sept. 2020 3562-3573*
- Xu, Y.**, see Zeng, Z., *TPWRS Jan. 2020 571-583*
- Xu, Y.**, see Ren, C., *TPWRS Jan. 2020 821-824*
- Xu, Y.**, see Fang, S., *TPWRS May 2020 1783-1795*
- Xu, Y.**, see Wang, Z., *TPWRS May 2020 1812-1821*
- Xu, Y.**, see Chen, S., *TPWRS May 2020 2232-2244*
- Xu, Y.**, Gu, Z., and Sun, K., Characterization of Subsynchronous Oscillation with Wind Farms Using Describing Function and Generalized Nyquist Criterion; *TPWRS July 2020 2783-2793*
- Xu, Y.**, see Yan, Z., *TPWRS July 2020 3270-3273*
- Xu, Y.**, see Wang, Y., *TPWRS July 2020 3294-3296*
- Xu, Y.**, Hu, Z., Mili, L., Korkali, M., and Chen, X., Probabilistic Power Flow Based on a Gaussian Process Emulator; *TPWRS July 2020 3278-3281*
- Xu, Y.**, see Yuan, H., *TPWRS Sept. 2020 3616-3626*
- Xu, Y.**, see Xu, X., *TPWRS Sept. 2020 3562-3573*
- Xu, Y.**, see Qiu, H., *TPWRS Sept. 2020 3636-3647*
- Xu, Y.**, Mili, L., Chen, X., Korkali, M., and Min, L., A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement; *TPWRS March 2020 1109-1119*
- Xu, Y.**, see Zheng, X., *TPWRS March 2020 1364-1375*
- Xu, Y.**, see Yan, Z., *TPWRS Nov. 2020 4599-4608*
- Xu, Y.**, Mili, L., Korkali, M., Karra, K., Zheng, Z., and Chen, X., A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration; *TPWRS Nov. 2020 4756-4768*
- Xu, Z.**, see Zhang, X., *TPWRS July 2020 2516-2526*
- Xu, Z.**, see Xu, X., *TPWRS Sept. 2020 3562-3573*

Y

- Yadav, A.P.**, see Altun, T., *TPWRS Nov. 2020 4272-4284*
- Yamashita, K.**, Ten, C., Rho, Y., Wang, L., Wei, W., and Ginter, A., Measuring Systemic Risk of Switching Attacks Based on Cybersecurity Technologies in Substations; *TPWRS Nov. 2020 4206-4219*
- Yan, B.**, Luh, P.B., Zheng, T., Schiro, D.A., Bragin, M.A., Zhao, F., Zhao, J., and Lelic, I., A Systematic Formulation Tightening Approach for Unit Commitment Problems; *TPWRS Jan. 2020 782-794*
- Yan, B.**, see Wan, W., *TPWRS Sept. 2020 3857-3868*
- Yan, C.**, see Peng, X., *TPWRS March 2020 962-974*
- Yan, J.**, see Zhang, H., *TPWRS July 2020 2549-2560*
- Yan, M.**, see Zhou, Q., *TPWRS March 2020 1389-1399*
- Yan, R.**, see Gu, H., *TPWRS July 2020 3065-3077*
- Yan, X.**, see Yang, X., *TPWRS Sept. 2020 3342-3352*
- Yan, Z.**, and Xu, Y., Real-Time Optimal Power Flow: A Lagrangian Based Deep Reinforcement Learning Approach; *TPWRS July 2020 3270-3273*
- Yan, Z.**, see Ma, H., *TPWRS March 2020 887-897*
- Yan, Z.**, and Xu, Y., A Multi-Agent Deep Reinforcement Learning Method for Cooperative Load Frequency Control of a Multi-Area Power System; *TPWRS Nov. 2020 4599-4608*
- Yang, B.**, see Zhang, X., *TPWRS July 2020 2516-2526*
- Yang, H.**, Qiu, R.C., Chu, L., Mi, T., Shi, X., and Liu, C.M., Improving Power System State Estimation Based on Matrix-Level Cleaning; *TPWRS Sept. 2020 3529-3540*
- Yang, J.**, Zhang, N., Botterud, A., and Kang, C., On An Equivalent Representation of the Dynamics in District Heating Networks for Combined Electricity-Heat Operation; *TPWRS Jan. 2020 560-570*

- Yang, J.**, *see* Yu, J., *TPWRS May 2020 1967-1978*
- Yang, J.**, *see* Zhuo, Z., *TPWRS July 2020 2597-2608*
- Yang, L.**, *see* Li, M., *TPWRS Jan. 2020 594-604*
- Yang, L.**, *see* Zhang, Z., *TPWRS May 2020 2059-2071*
- Yang, L.**, *see* Li, M., *TPWRS July 2020 3316*
- Yang, L.**, *see* Liu, S., *TPWRS Sept. 2020 3574-3587*
- Yang, L.**, *see* Liu, S., *TPWRS March 2020 1653-1656*
- Yang, M.**, *see* Zhou, A., *TPWRS Sept. 2020 3366-3377*
- Yang, M.**, *see* Zhou, S., *TPWRS Nov. 2020 4232-4250*
- Yang, P.**, Liu, F., Wang, Z., and Shen, C., Distributed Stability Conditions for Power Systems With Heterogeneous Nonlinear Bus Dynamics; *TPWRS May 2020 2313-2324*
- Yang, X.**, Gu, C., Yan, X., and Li, F., Reliability-Based Probabilistic Network Pricing With Demand Uncertainty; *TPWRS Sept. 2020 3342-3352*
- Yang, Y.**, *see* Zeng, Z., *TPWRS Jan. 2020 571-583*
- Yang, Y.**, *see* Yang, Z., *TPWRS May 2020 2479-2482*
- Yang, Y.**, Wu, W., Wang, B., and Li, M., Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model; *TPWRS July 2020 2769-2782*
- Yang, Z.**, *see* Lin, W., *TPWRS May 2020 2222-2231*
- Yang, Z.**, Wang, Y., Yu, J., and Yang, Y., On the Minimization of Uplift Payments for Multi-Period Dispatch; *TPWRS May 2020 2479-2482*
- Yang, Z.**, *see* Chen, S., *TPWRS May 2020 2232-2244*
- Yang, Z.**, *see* Fang, X., *TPWRS July 2020 2794-2803*
- Yao, R.**, *see* Zhang, Z., *TPWRS May 2020 1856-1867*
- Yao, R.**, Liu, Y., Sun, K., Qiu, F., and Wang, J., Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding; *TPWRS March 2020 938-949*
- Yao, R.**, and Qiu, F., Novel AC Distribution Factor for Efficient Outage Analysis; *TPWRS Nov. 2020 4960-4963*
- Yao, S.**, *see* Lu, S., *TPWRS May 2020 2374-2387*
- Yao, S.**, *see* Zhang, H., *TPWRS Sept. 2020 3682-3694*
- Yao, S.**, *see* Wu, C., *TPWRS Sept. 2020 3378-3387*
- Yao, W.**, *see* Wang, W., *TPWRS May 2020 2483-2486*
- Yao, W.**, *see* Zhang, M., *TPWRS July 2020 3266-3269*
- Yao, W.**, *see* Peng, X., *TPWRS March 2020 962-974*
- Yao, Y.**, *see* Chen, Y., *TPWRS Jan. 2020 711-720*
- Yao, Z.**, A Sufficient and Necessary Condition of Transient Stability for Multi-machine Systems; *TPWRS Jan. 2020 683-690*
- Yazdavar, A.H.**, *see* Kirakosyan, A., *TPWRS Jan. 2020 140-151*
- Ye, H.**, *see* Fang, X., *TPWRS July 2020 2561-2574*
- Ye, H.**, *see* Mou, Q., *TPWRS March 2020 1499-1508*
- Ye, H.**, Li, T., and Liu, Y., Time Integration-Based IGD Methods for Eigen-Analysis of Large Delayed Cyber-Physical Power System; *TPWRS March 2020 1376-1388*
- Ye, Y.**, Papadaskalopoulos, D., Kazempour, J., and Strbac, G., Incorporating Non-Convex Operating Characteristics Into Bi-Level Optimization Electricity Market Models; *TPWRS Jan. 2020 163-176*
- Yi, J.**, *see* Wang, P., *TPWRS Sept. 2020 3388-3399*
- Yi, Z.**, *see* Duan, J., *TPWRS Jan. 2020 814-817*
- Yiu, C.**, *see* Hamoud, G.A., *TPWRS July 2020 3114-3121*
- Yorino, N.**, *see* Bedawy, A., *TPWRS March 2020 1023-1035*
- You, S.**, *see* Feng, C., *TPWRS May 2020 1729-1740*
- Yu, A.**, Zhang, C., Zhang, Y.-J.A., Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets; *TPWRS May 2020 1695-1706*
- Yu, J.**, Lin, X., Song, D., Yu, R., Yang, J., and Su, M., New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings; *TPWRS May 2020 1967-1978*
- Yu, J.**, *see* Lin, W., *TPWRS May 2020 2222-2231*
- Yu, J.**, *see* Yang, Z., *TPWRS May 2020 2479-2482*
- Yu, J.**, *see* Fang, X., *TPWRS July 2020 2794-2803*
- Yu, J.**, *see* Liu, W., *TPWRS July 2020 3078-3086*
- Yu, J.**, Shi, W., Li, J., Deng, L., and Pei, M., A Discrete-Time Non-Adaptive SOGI-Based Frequency-Locked Loop; *TPWRS Nov. 2020 4912-4915*
- Yu, N.**, *see* Wang, W., *TPWRS Sept. 2020 3906-3917*
- Yu, R.**, *see* Yu, J., *TPWRS May 2020 1967-1978*
- Yu, R.**, *see* Wang, W., *TPWRS Nov. 2020 4445-4458*
- Yu, S.S.**, Guo, J., Chau, T.K., Fernando, T., Iu, H.H., and Trinh, H., An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems; *TPWRS July 2020 2670-2682*
- Yu, T.**, *see* Zhang, X., *TPWRS July 2020 2516-2526*
- Yu, W.**, *see* Qiu, H., *TPWRS Sept. 2020 3636-3647*
- Yu, X.**, *see* Qin, J., *TPWRS March 2020 986-996*
- Yu, Y.**, Guan, Y., and Chen, Y., An Extended Integral Unit Commitment Formulation and an Iterative Algorithm for Convex Hull Pricing; *TPWRS Nov. 2020 4335-4346*
- Yuan, H.**, *see* Huang, L., *TPWRS July 2020 3282-3285*
- Yuan, H.**, *see* Fang, X., *TPWRS July 2020 2561-2574*
- Yuan, H.**, and Xu, Y., Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power; *TPWRS Sept. 2020 3616-3626*
- Yuan, L.**, *see* Jia, Y., *TPWRS May 2020 2245-2255*
- Yuan, S.**, *see* Tan, M., *TPWRS July 2020 2937-2948*
- Yuan, Y.**, *see* Bu, F., *TPWRS July 2020 3133-3144*
- Yuan, Y.**, Dehghanpour, K., Bu, F., and Wang, Z., A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand; *TPWRS Sept. 2020 4026-4035*
- Yuan, Y.**, *see* Dehghanpour, K., *TPWRS Sept. 2020 3835-3846*
- Yuan, Y.**, *see* Wu, H., *TPWRS Nov. 2020 4928-4931*
- Yun, Z.**, and Cui, X., Online Preventive Control Method for Static Voltage Stability of Large Power Grids; *TPWRS Nov. 2020 4689-4698*

Z

- Zaery, M.**, Wang, P., Wang, W., and Xu, D., Distributed Global Economical Load Sharing for a Cluster of DC Microgrids; *TPWRS Sept. 2020 3410-3420*
- Zahawi, B.**, *see* Wabwah, M., *TPWRS Jan. 2020 652-661*
- Zamzam, A.S.**, and Sidiropoulos, N.D., Physics-Aware Neural Networks for Distribution System State Estimation; *TPWRS Nov. 2020 4347-4356*
- Zanma, T.**, *see* Koiwa, K., *TPWRS July 2020 2586-2596*
- Zare, A.**, *see* Khorramdel, B., *TPWRS March 2020 873-886*
- Zarifakis, M.**, Byrne, D.J., Coffey, W.T., Kalmykov, Y.P., Titov, S.V., and Carrig, S.J., Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems; *TPWRS Jan. 2020 795-802*
- Zeng, F.**, Zhang, J., Zhou, Y., and Qu, S., Online Identification of Inertia Distribution in Normal Operating Power System; *TPWRS July 2020 3301-3304*
- Zeng, Z.**, Ding, T., Xu, Y., Yang, Y., and Dong, Z., Reliability Evaluation for Integrated Power-Gas Systems With Power-to-Gas and Gas Storages; *TPWRS Jan. 2020 571-583*
- Zhai, Q.**, *see* Li, X., *TPWRS Jan. 2020 261-272*
- Zhan, J.**, *see* Liu, W., *TPWRS March 2020 1432-1445*
- Zhang, B.**, *see* Duan, J., *TPWRS Jan. 2020 814-817*
- Zhang, B.**, *see* Li, Z., *TPWRS Sept. 2020 3991-4004*
- Zhang, B.**, *see* Liu, S., *TPWRS Sept. 2020 3574-3587*
- Zhang, B.**, *see* Li, Z., *TPWRS March 2020 1457-1467*
- Zhang, C.**, *see* Yu, A., *TPWRS May 2020 1695-1706*
- Zhang, F.**, *see* Wang, Z., *TPWRS May 2020 1812-1821*
- Zhang, G.**, *see* Hao, F., *TPWRS July 2020 2726-2735*
- Zhang, G.**, and Guo, J., A Novel Method for Hourly Electricity Demand Forecasting; *TPWRS March 2020 1351-1363*
- Zhang, H.**, *see* Wu, S., *TPWRS July 2020 3026-3039*
- Zhang, H.**, Liu, Y., Yan, J., Han, S., Li, L., and Long, Q., Improved Deep Mixture Density Network for Regional Wind Power Probabilistic Forecasting; *TPWRS July 2020 2549-2560*
- Zhang, H.**, Wang, P., Yao, S., Liu, X., and Zhao, T., Resilience Assessment of Interdependent Energy Systems Under Hurricanes; *TPWRS Sept. 2020 3682-3694*
- Zhang, H.**, *see* Li, C., *TPWRS March 2020 950-961*
- Zhang, J.**, *see* He, X., *TPWRS May 2020 1846-1855*
- Zhang, J.**, *see* Zeng, F., *TPWRS July 2020 3301-3304*

- Zhang, M.**, Fang, J., Ai, X., Zhou, B., Yao, W., Wu, Q., and Wen, J., Partition-Combine Uncertainty Set for Robust Unit Commitment; *TPWRS July 2020* 3266-3269
- Zhang, M.**, and Sun, L., PLL and Additional Frequency Control Constituting an Adaptive Synchronization Mechanism for VSCs; *TPWRS Nov. 2020* 4920-4923
- Zhang, N.**, see Yang, J., *TPWRS Jan. 2020* 560-570
- Zhang, N.**, see Hou, Q., *TPWRS Jan. 2020* 731-741
- Zhang, N.**, see Zhuo, Z., *TPWRS July 2020* 2597-2608
- Zhang, N.**, see Zhuo, Z., *TPWRS March 2020* 1061-1074
- Zhang, N.**, see Zhang, Z., *TPWRS Nov. 2020* 4383-4395
- Zhang, P.**, see Feng, F., *TPWRS May 2020* 2463-2466
- Zhang, P.**, see Zhou, Y., *TPWRS July 2020* 3290-3293
- Zhang, P.**, see Wan, W., *TPWRS Sept. 2020* 3857-3868
- Zhang, P.**, see Feng, F., *TPWRS Sept. 2020* 4108-4111
- Zhang, P.**, see Zhou, Y., *TPWRS Nov. 2020* 4936-4939
- Zhang, Q.**, see Gibbard, M.J., *TPWRS Nov. 2020* 4495-4504
- Zhang, T.**, see Sun, M., *TPWRS Jan. 2020* 188-201
- Zhang, W.**, see Zhao, J., *TPWRS July 2020* 3213-3223
- Zhang, W.**, see Li, Y., *TPWRS March 2020* 1657-1660
- Zhang, X.**, see Fang, L., *TPWRS Jan. 2020* 751-761
- Zhang, X.**, see Lu, X., *TPWRS May 2020* 2212-2221
- Zhang, X.**, Xu, Z., Yu, T., Yang, B., and Wang, H., Optimal Mileage Based AGC Dispatch of a GenCo; *TPWRS July 2020* 2516-2526
- Zhang, X.**, see Huang, W., *TPWRS July 2020* 2609-2618
- Zhang, X.**, Liu, Y., Gao, H., Wang, L., and Liu, J., A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation; *TPWRS July 2020* 2959-2970
- Zhang, X.**, see Subramanyam, S.A., *TPWRS July 2020* 3297-3300
- Zhang, X.**, see Liu, Z., *TPWRS Sept. 2020* 4100-4103
- Zhang, Y.**, Wang, J., and Li, Z., Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems; *TPWRS Jan. 2020* 762-772
- Zhang, Y.**, see Chen, K., *TPWRS May 2020* 2362-2373
- Zhang, Y.**, and Wang, J., Towards Highly Efficient State Estimation With Non-linear Measurements in Distribution Systems; *TPWRS May 2020* 2471-2474
- Zhang, Y.**, see Gu, H., *TPWRS July 2020* 3065-3077
- Zhang, Y.**, see Bu, F., *TPWRS July 2020* 3133-3144
- Zhang, Y.**, Shotorbani, A.M., Wang, L., and Li, W., Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids; *TPWRS Sept. 2020* 3739-3752
- Zhang, Y.**, see Zhou, A., *TPWRS Sept. 2020* 3366-3377
- Zhang, Y.**, see Ma, J., *TPWRS Sept. 2020* 3433-3447
- Zhang, Y.-J.A.**, see Yu, A., *TPWRS May 2020* 1695-1706
- Zhang, Z.**, see Cao, Z., *TPWRS May 2020* 1881-1897
- Zhang, Z.**, Yao, R., Huang, S., Chen, Y., Mei, S., and Sun, K., An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer; *TPWRS May 2020* 1856-1867
- Zhang, Z.**, Jiang, Y., Lin, Z., Wen, F., Ding, Y., Yang, L., Lin, Z., Li, Y., Qian, H., Li, J., and He, C., Optimal Alliance Strategies Among Retailers Under Energy Deviation Settlement Mechanism in China's Forward Electricity Market; *TPWRS May 2020* 2059-2071
- Zhang, Z.**, see Wang, P., *TPWRS Sept. 2020* 3388-3399
- Zhang, Z.**, Du, E., Teng, F., Zhang, N., and Kang, C., Modeling Frequency Dynamics in Unit Commitment With a High Share of Renewable Energy; *TPWRS Nov. 2020* 4383-4395
- Zhang, Z.**, see Ju, Y., *TPWRS Nov. 2020* 4896-4903
- Zhao, C.**, Wan, C., and Song, Y., An Adaptive Bilevel Programming Model for Nonparametric Prediction Intervals of Wind Power Generation; *TPWRS Jan. 2020* 424-439
- Zhao, C.**, see Zhou, X., *TPWRS May 2020* 2047-2058
- Zhao, C.**, Wan, C., Song, Y., and Cao, Z., Optimal Nonparametric Prediction Intervals of Electricity Load; *TPWRS May 2020* 2467-2470
- Zhao, C.**, see Wan, C., *TPWRS Sept. 2020* 3869-3884
- Zhao, C.**, see Babaei, S., *TPWRS Sept. 2020* 3332-3341
- Zhao, F.**, see Yan, B., *TPWRS Jan. 2020* 782-794
- Zhao, F.**, Zheng, T., and Litvinov, E., Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part II: Practice; *TPWRS Nov. 2020* 4888-4895
- Zhao, F.**, Zheng, T., and Litvinov, E., Economic Interpretation of Demand Curves in Multi-Product Electricity Markets–Part I: Theory; *TPWRS Nov. 2020* 4880-4887
- Zhao, J.**, see Liu, B., *TPWRS Jan. 2020* 825-828
- Zhao, J.**, see Yan, B., *TPWRS Jan. 2020* 782-794
- Zhao, J.**, see Zheng, Y., *TPWRS Jan. 2020* 273-283
- Zhao, J.**, Zheng, Z., Wang, S., Huang, R., Bi, T., Mili, L., and Huang, Z., Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs; *TPWRS May 2020* 2443-2451
- Zhao, J.**, Wang, H., Hou, Y., Wu, Q., Hatzigryriou, N.D., Zhang, W., and Liu, Y., Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System; *TPWRS July 2020* 3213-3223
- Zhao, J.**, see Wang, Y., *TPWRS July 2020* 3145-3157
- Zhao, J.**, see Zhou, N., *TPWRS July 2020* 3274-3277
- Zhao, J.**, Zheng, T., and Litvinov, E., A Multi-Period Market Design for Markets With Intertemporal Constraints; *TPWRS July 2020* 3015-3025
- Zhao, J.**, see Liu, J., *TPWRS July 2020* 2619-2630
- Zhao, J.**, see Cao, D., *TPWRS Sept. 2020* 4120-4123
- Zhao, J.**, Wang, H., Wu, Q., Hatzigryriou, N.D., and Shen, F., Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System; *TPWRS Sept. 2020* 3516-3528
- Zhao, M.**, Shi, Q., Cai, Y., and Li, Y., Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks; *TPWRS May 2020* 2176-2189
- Zhao, M.**, see Zhao, M., *TPWRS May 2020* 2176-2189
- Zhao, P.**, Gu, C., and Huo, D., Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks; *TPWRS Sept. 2020* 4014-4025
- Zhao, S.**, see Zhao, T., *TPWRS Sept. 2020* 4127-4130
- Zhao, T.**, see Fang, S., *TPWRS May 2020* 1783-1795
- Zhao, T.**, Chen, B., Zhao, S., Wang, J., and Lu, X., A Flexible Operation of Distributed Generation in Distribution Networks With Dynamic Boundaries; *TPWRS Sept. 2020* 4127-4130
- Zhao, T.**, Parisio, A., and Milanovic, J.V., Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation; *TPWRS Sept. 2020* 3729-3738
- Zhao, T.**, see Zhang, H., *TPWRS Sept. 2020* 3682-3694
- Zhao, Y.**, see Liu, S., *TPWRS Sept. 2020* 3574-3587
- Zheng, F.**, see Kong, X., *TPWRS March 2020* 1531-1538
- Zheng, T.**, see Yan, B., *TPWRS Jan. 2020* 782-794
- Zheng, T.**, see Zhao, J., *TPWRS July 2020* 3015-3025
- Zheng, T.**, see Du, Y., *TPWRS July 2020* 2704-2715
- Zheng, T.**, see Zhao, F., *TPWRS Nov. 2020* 4888-4895
- Zheng, T.**, see Zhao, F., *TPWRS Nov. 2020* 4880-4887
- Zheng, X.**, Chen, H., Xu, Y., Liang, Z., and Chen, Y., A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets; *TPWRS March 2020* 1364-1375
- Zheng, X.**, and Chen, H., Data-Driven Distributionally Robust Unit Commitment With Wasserstein Metric: Tractable Formulation and Efficient Solution Method; *TPWRS Nov. 2020* 4940-4943
- Zheng, Y.**, Hill, D.J., Song, Y., Zhao, J., and Hui, S.Y.R., Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems; *TPWRS Jan. 2020* 273-283
- Zheng, Y.**, see Song, Y., *TPWRS Jan. 2020* 496-507
- Zheng, Y.**, see Song, Y., *TPWRS Nov. 2020* 4975-4976
- Zheng, Z.**, see Zhao, J., *TPWRS May 2020* 2443-2451
- Zheng, Z.**, see Xu, Y., *TPWRS Nov. 2020* 4756-4768
- Zhong, H.**, see Ma, Z., *TPWRS Sept. 2020* 3800-3809
- Zhong, H.**, see Tan, Z., *TPWRS Nov. 2020* 4285-4296
- Zhou, A.**, Yang, M., Wang, M., and Zhang, Y., A Linear Programming Approximation of Distributionally Robust Chance-Constrained Dispatch With Wasserstein Distance; *TPWRS Sept. 2020* 3366-3377
- Zhou, B.**, see Zhang, M., *TPWRS July 2020* 3266-3269
- Zhou, B.**, see Xu, D., *TPWRS Nov. 2020* 4769-4780
- Zhou, J.**, see Li, X., *TPWRS Jan. 2020* 261-272

- Zhou, J.**, *see* Shi, M., *TPWRS May 2020 2268-2278*
- Zhou, K.**, Dobson, I., Wang, Z., Roitershtein, A., and Ghosh, A.P., A Markovian Influence Graph Formed From Utility Line Outage Data to Mitigate Large Cascades; *TPWRS July 2020 3224-3235*
- Zhou, M.**, *see* Huang, H., *TPWRS May 2020 2431-2442*
- Zhou, N.**, Wang, S., Zhao, J., and Huang, Z., Application of Detectability Analysis for Power System Dynamic State Estimation; *TPWRS July 2020 3274-3277*
- Zhou, N.**, Luo, L., Sheng, G., and Jiang, X., Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model; *TPWRS March 2020 1479-1488*
- Zhou, Q.**, Shahidehpour, M., Alabdulwahab, A., and Abusorrah, A., Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids; *TPWRS Jan. 2020 474-486*
- Zhou, Q.**, *see* Wu, X., *TPWRS Jan. 2020 374-384*
- Zhou, Q.**, Tian, Z., Shahidehpour, M., Liu, X., Alabdulwahab, A., and Abusorrah, A., Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids; *TPWRS May 2020 2452-2462*
- Zhou, Q.**, Shahidehpour, M., Alabdulwahab, A., and Abusorrah, A., Unification Scheme for Managing Master Controller Failures in Networked Microgrids; *TPWRS July 2020 3004-3014*
- Zhou, Q.**, Shahidehpour, M., Alabdulwahab, A., and Abusorrah, A., Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids; *TPWRS Sept. 2020 3847-3856*
- Zhou, Q.**, Shahidehpour, M., Li, Z., Che, L., Alabdulwahab, A., and Abusorrah, A., Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid; *TPWRS March 2020 1294-1304*
- Zhou, Q.**, Shahidehpour, M., Yan, M., Wu, X., Alabdulwahab, A., and Abusorrah, A., Distributed Secondary Control for Islanded Microgrids With Mobile Emergency Resources; *TPWRS March 2020 1389-1399*
- Zhou, S.**, Wang, M., Wang, J., Yang, M., and Dong, X., Time-Process Power Flow Calculation Considering Thermal Behavior of Transmission Components; *TPWRS Nov. 2020 4232-4250*
- Zhou, X.**, Liu, Z., Zhao, C., and Chen, L., Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm; *TPWRS May 2020 2047-2058*
- Zhou, Y.**, Shahidehpour, M., Wei, Z., Li, Z., Sun, G., and Chen, S., Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating; *TPWRS May 2020 2388-2398*
- Zhou, Y.**, Shahidehpour, M., Wei, Z., Li, Z., Sun, G., and Chen, S., Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks; *TPWRS May 2020 2155-2166*
- Zhou, Y.**, *see* Zeng, F., *TPWRS July 2020 3301-3304*
- Zhou, Y.**, and Zhang, P., Reachable Power Flow; *TPWRS July 2020 3290-3293*
- Zhou, Y.**, and Zhang, P., Reachable Eigenanalysis; *TPWRS Nov. 2020 4936-4939*
- Zhou, Z.**, *see* Kwon, J., *TPWRS Jan. 2020 773-781*
- Zhou, Z.**, *see* Park, B., *TPWRS Nov. 2020 4324-4334*
- Zhu, H.**, *see* Lan, Y., *TPWRS May 2020 2412-2421*
- Zhu, J.**, *see* Luo, J., *TPWRS Sept. 2020 4046-4055*
- Zhu, L.**, Hill, D.J., and Lu, C., Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction; *TPWRS May 2020 2399-2411*
- Zhu, M.**, *see* Li, W., *TPWRS March 2020 1606-1617*
- Zhu, Y.**, *see* Shi, X., *TPWRS March 2020 975-985*
- Zhuo, Z.**, Zhang, N., Yang, J., Kang, C., Smith, C., O'Malley, M.J., and Kroposki, B., Transmission Expansion Planning Test System for AC/DC Hybrid Grid With High Variable Renewable Energy Penetration; *TPWRS July 2020 2597-2608*
- Zhuo, Z.**, Du, E., Zhang, N., Kang, C., Xia, Q., and Wang, Z., Incorporating Massive Scenarios in Transmission Expansion Planning With High Renewable Energy Penetration; *TPWRS March 2020 1061-1074*
- Zoka, Y.**, *see* Bedawy, A., *TPWRS March 2020 1023-1035*
- Zotti, G.D.**, Pourmousavi, S.A., Morales, J.M., Madsen, H., and Poulsen, N.K., A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users; *TPWRS May 2020 1868-1880*

- Zuo, Y.**, Frigo, G., Derviskadic, A., and Paolone, M., Impact of Synchrophasor Estimation Algorithms in ROCOF-Based Under-Frequency Load-Shedding; *TPWRS March 2020 1305-1316*

SUBJECT INDEX

A

AC generators

- A Planning Model for a Hybrid AC–DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*

AC-DC power converters

- Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*
- Communication-Free Current Sharing Control Strategy for DC Microgrids and Its Application for AC/DC Hybrid Microgrids. *Kirakosyan, A.*, +, *TPWRS Jan. 2020 140-151*
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*
- Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*
- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*
- Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy. *Lin, W.*, +, *TPWRS May 2020 2222-2231*
- Transmission Expansion Planning Test System for AC/DC Hybrid Grid With High Variable Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS July 2020 2597-2608*

Acoustic signal processing

- Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS Sept. 2020 4124-4126*

Active distribution networks

- Analytical Reliability Evaluation of Active Distribution Systems Considering Information Link Failures. *Liu, W.*, +, *TPWRS Nov. 2020 4167-4179*
- Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. *Ruan, H.*, +, *TPWRS Nov. 2020 4220-4231*

Active disturbance rejection control

- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*

Actuators

- Closure to Discussion on “Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach”. *Wang, Y.*, +, *TPWRS Sept. 2020 4141*
- Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*
- Discussion on “Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach”. *Doshi, N.P.*, *TPWRS Sept. 2020 4140*
- Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Ad hoc networks

- Electricity Pricing Under Constraint Violations. *Fang, X.*, +, *TPWRS July 2020 2794-2803*

Adaptive control

- A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*
- Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C.*, +, *TPWRS March 2020 950-961*
- Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*
- Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*

Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*

Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S.*, +, *TPWRS July 2020 3100-3113*

Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. *Wang, Y.*, +, *TPWRS Jan. 2020 691-702*

Admittance

Stability Analysis on Torsional Interactions of Turbine-Generator Connected With DFIG-WECS Using Admittance Model. *Velpula, S.*, +, *TPWRS Nov. 2020 4745-4755*

Aging

Low-Carbon Electricity Network Transition Considering Retirement of Aging Coal Generators. *Shen, W.*, +, *TPWRS Nov. 2020 4193-4205*

Air conditioning

An Improved Aggregated Model of Residential Air Conditioners for FIDVR Studies. *Hajipour, E.*, +, *TPWRS March 2020 909-919*

Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*

Air pollution

Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*

Algebra

A Search Space Reduction Method for Transmission Expansion Planning Using an Iterative Refinement of the DC Load Flow Model. *Ploussard, Q.*, +, *TPWRS Jan. 2020 152-162*

Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R.*, +, *TPWRS March 2020 938-949*

Modal Participation Factors of Algebraic Variables. *Tzounas, G.*, +, *TPWRS Jan. 2020 742-750*

Ammonia

Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. *Xu, D.*, +, *TPWRS Nov. 2020 4769-4780*

Analytical models

A Library of Second-Order Models for Synchronous Machines. *Ajala, O.*, +, *TPWRS Nov. 2020 4803-4814*

Angular velocity control

Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*

Anomaly detection

A Real Time Event Detection, Classification and Localization Using Synchrophasor Data. *Pandey, S.*, +, *TPWRS Nov. 2020 4421-4431*

Application program interfaces

Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 539-550*

Approximation theory

A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X.*, +, *TPWRS March 2020 1364-1375*

Approximating Economic Dispatch by Linearizing Transmission Losses. *Garcia, M.*, +, *TPWRS March 2020 1009-1022*

Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*

Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R.*, +, *TPWRS March 2020 938-949*

Lossy DistFlow Formulation for Single and Multiphase Radial Feeders. *Schweitzer, E.*, +, *TPWRS May 2020 1758-1768*

Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*

Artificial intelligence

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H.*, +, *TPWRS Sept. 2020 3400-3409*

Asymptotic stability

Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Asynchronous generators

A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*

An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

Coherency Identification for Wind-Integrated Power System Using Virtual Synchronous Motion Equation. *Liu, J.*, +, *TPWRS July 2020 2619-2630*

Equipment-Level Locating of Low Frequency Oscillating Source in Power System With DFIG Integration Based on Dynamic Energy Flow. *Ma, J.*, +, *TPWRS Sept. 2020 3433-3447*

Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*

Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. *Jin, Y.*, +, *TPWRS May 2020 1769-1782*

Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*

Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*

Asynchronous machines

Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance. *Xia, Y.*, +, *TPWRS May 2020 2120-2132*

Automatic frequency control

Closure to Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Khayat, Y.*, +, *TPWRS Nov. 2020 4973*

Automatic generation control

Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. *Ling, Y.*, +, *TPWRS Nov. 2020 4263-4271*

Reexamining the Distributed Slack Bus. *Dhople, S.V.*, +, *TPWRS Nov. 2020 4870-4879*

Stochastic Online Generation Control of Cascaded Run-of-the-River Hydropower for Mitigating Solar Power Volatility. *Qiu, Y.*, +, *TPWRS Nov. 2020 4709-4722*

Automatic voltage control

A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning. *Wang, S.*, +, *TPWRS Nov. 2020 4644-4654*

Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. *Varma, R.K.*, +, *TPWRS Nov. 2020 4251-4262*

Autoregressive moving average processes

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H.*, +, *TPWRS Sept. 2020 3400-3409*

The Effects of Forced Oscillation Frequency Estimation Error on the LS-ARMA+S Mode Meter. *Dosiek, L.*, *TPWRS March 2020 1650-1652*

Autoregressive processes

Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS Sept. 2020 4124-4126*

B

Backtracking

A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J.*, +, *TPWRS March 2020 986-996*

Band-pass filters

A Strategy for Forced Oscillation Suppression. *Trudnowski, D.J.*, +, *TPWRS Nov. 2020 4699-4708*

Batteries

Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. *Xu, D.*, +, *TPWRS Nov. 2020 4769-4780*

Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View. *Golpiri, H.*, +, *TPWRS Nov. 2020 4824-4835*

Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*

Battery management systems

Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*

Battery powered vehicles

A Cluster-Based Operation Model of Aggregated Battery Swapping Stations. *Sepetanc, K.*, +, *TPWRS Jan. 2020 249-260*

A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*

Battery storage plants

Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*

Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S.*, +, *TPWRS March 2020 1132-1142*

Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*

Improving AGC Performance in Power Systems With Regulation Response Accuracy Margins Using Battery Energy Storage System (BESS). *Doenges, K.*, +, *TPWRS July 2020 2816-2825*

Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*

Bayes methods

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*

A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. *Liu, T.*, +, *TPWRS Sept. 2020 4088-4099*

A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. *Xu, Y.*, +, *TPWRS Nov. 2020 4756-4768*

Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L.*, +, *TPWRS March 2020 1646-1649*

Fraud Detection in Electric Power Distribution: An Approach That Maximizes the Economic Return. *Massaferro, P.*, +, *TPWRS Jan. 2020 703-710*

Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing. *Dobbe, R.*, +, *TPWRS May 2020 1674-1683*

Probabilistic Power Flow Based on a Gaussian Process Emulator. *Xu, Y.*, +, *TPWRS July 2020 3278-3281*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

Belief networks

Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*

Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*

Bifurcation

Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation. *Wu, D.*, +, *TPWRS July 2020 2915-2925*

On The Computation of The Locally Closest Bifurcation Point Considering Loading Uncertainties and Reactive Power Limits. *Neves, L.S.*, +, *TPWRS Sept. 2020 3885-3894*

Bode diagrams

Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*

Boilers

Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*

Boltzmann machines

Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*

Boolean functions

Optimal Power Flow Models With Probabilistic Guarantees: A Boolean Approach. *Lejeune, M.A.*, +, *TPWRS Nov. 2020 4932-4935*

Bridge circuits

Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S.*, +, *TPWRS July 2020 3026-3039*

Building integrated photovoltaics

A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*

Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

Building management systems

Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*

On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K.*, +, *TPWRS March 2020 840-853*

Thermal Inertial Aggregation Model for Integrated Energy Systems. *Lu, S.*, +, *TPWRS May 2020 2374-2387*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

Bulk storage

On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning. *Arroyo, J.M.*, +, *TPWRS Nov. 2020 4964-4967*

Busbars

Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures. *Robak, S.*, +, *TPWRS May 2020 2422-2430*

C

Capacitance

A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*

Chaos

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*

Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*

Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation. *Wu, D.*, +, *TPWRS July 2020 2915-2925*

Circuit breakers

Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures. *Robak, S.*, +, *TPWRS May 2020 2422-2430*

Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*

Circuit faults

A Novel Decomposition Solution Approach for the Restoration Problem in Distribution Networks. *Sekhvatmanesh, H.*, +, *TPWRS Sept. 2020 3810-3824*

Closed loop systems

Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*

Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*

Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*

Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Cloud computing

A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*

Clustering algorithms

A Real Time Event Detection, Classification and Localization Using Synchrophasor Data. *Pandey, S.*, +, *TPWRS Nov. 2020 4421-4431*

Clustering methods

A Clustering-Based Approach for Estimation of Low Frequency Oscillations in Power Systems. *Pande, P.W.*, +, *TPWRS Nov. 2020 4666-4677*

Closure to Discussion on “Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach”. *Wang, Y.*, +, *TPWRS Sept. 2020 4141*

Discussion on “Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach”. *Doshi, N.P.*, *TPWRS Sept. 2020 4140*

Coal

Low-Carbon Electricity Network Transition Considering Retirement of Aging Coal Generators. *Shen, W.*, +, *TPWRS Nov. 2020 4193-4205*

Coal-fired power stations

Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*

Cogeneration

Energy Trading and Generalized Nash Equilibrium in Combined Heat and Power Market. *Wu, C.*, +, *TPWRS Sept. 2020 3378-3387*

On An Equivalent Representation of the Dynamics in District Heating Networks for Combined Electricity-Heat Operation. *Yang, J.*, +, *TPWRS Jan. 2020 560-570*

Singular Perturbation for the Dynamic Modeling of Integrated Energy Systems. *Shen, F.*, +, *TPWRS May 2020 1718-1728*

Combinatorial mathematics

A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*

Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*

Combined cycle power stations

Tight Formulation of Transition Ramping of Combined Cycle Units. *Hua, B.*, +, *TPWRS May 2020 2167-2175*

Towards Accurate Modeling on Configuration Transitions and Dynamic Ramping of Combined-Cycle Units in UC Problems. *Liu, Y.*, +, *TPWRS May 2020 2200-2211*

Communication complexity

Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q.*, +, *TPWRS July 2020 3004-3014*

Commutation

Theoretical Parameter Design Method of SFCL for Concurrent Commutation Failure Inhibition in SFCL-Segmented Multi-Feed LCC-HVDC Systems. *Li, Y.*, +, *TPWRS May 2020 1741-1757*

Compensation

Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*

Complex networks

Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*

Complexity theory

Novel AC Distribution Factor for Efficient Outage Analysis. *Yao, R.*, +, *TPWRS Nov. 2020 4960-4963*

Compressed sensing

Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption. *Chatterjee, K.*, +, *TPWRS Nov. 2020 4723-4733*

Computational complexity

A New Fully Parallel BBDF Method in Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 304-314*

A Systematic Formulation Tightening Approach for Unit Commitment Problems. *Yan, B.*, +, *TPWRS Jan. 2020 782-794*

Data-Driven Screening of Network Constraints for Unit Commitment. *Pineda, S.*, +, *TPWRS Sept. 2020 3695-3705*

Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F.*, +, *TPWRS May 2020 2190-2199*

Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. *Ruan, H.*, +, *TPWRS Nov. 2020 4220-4231*

Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*

Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y.*, +, *TPWRS May 2020 2412-2421*

Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*

Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems. *Hao, Y.*, +, *TPWRS March 2020 1166-1177*

New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J.*, +, *TPWRS May 2020 1967-1978*

Computational geometry

A Bienstock-Zuckerberg-Based Algorithm for Solving a Network-Flow Formulation of the Convex Hull Pricing Problem. *Alvarez, C.*, +, *TPWRS May 2020 2108-2119*

Computational modeling

A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. *Xu, Y.*, +, *TPWRS Nov. 2020 4756-4768*

A Library of Second-Order Models for Synchronous Machines. *Ajala, O.*, +, *TPWRS Nov. 2020 4803-4814*

A Novel Decomposition Solution Approach for the Restoration Problem in Distribution Networks. *Sekhvatmanesh, H.*, +, *TPWRS Sept. 2020 3810-3824*

Measurement-Based Optimal DER Dispatch With a Recursively Estimated Sensitivity Model. *Nowak, S.*, +, *TPWRS Nov. 2020 4792-4802*

Multidimensional Scenario Selection for Power Systems With Stochastic Failures. *Mohammadi, F.*, +, *TPWRS Nov. 2020 4528-4538*

Computer aided instruction

A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems. *Cordeiro, A.*, +, *TPWRS May 2020 2144-2154*

Computer network security

Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes. *Jahromi, A.A.*, +, *TPWRS Jan. 2020 440-450*

Concave programming

A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X.*, +, *TPWRS July 2020 2959-2970*

A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*

- Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. *Zhao, M., +, TPWRS May 2020 2176-2189*
- Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y., +, TPWRS May 2020 2412-2421*
- Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovic, L.D., +, TPWRS March 2020 864-872*
- From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. *Pan, K., +, TPWRS March 2020 1584-1596*
- Incorporating Non-Convex Operating Characteristics Into Bi-Level Optimization Electricity Market Models. *Ye, Y., +, TPWRS Jan. 2020 163-176*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N., +, TPWRS July 2020 2683-2692*
- Conductors**
- Time-Process Power Flow Calculation Considering Thermal Behavior of Transmission Components. *Zhou, S., +, TPWRS Nov. 2020 4232-4250*
- Conductors (electric)**
- A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids. *Pompodakis, E.E., +, TPWRS March 2020 1143-1155*
- Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M., +, TPWRS Jan. 2020 584-593*
- Consumer behavior**
- A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y., +, TPWRS Sept. 2020 4026-4035*
- Contingency management**
- Automated Design of Realistic Contingencies for Big Data Generation. *Bogodorova, T., +, TPWRS Nov. 2020 4968-4971*
- Contracts**
- Impact of Market Timing on the Profit of a Risk-Averse Load Aggregator. *Herre, L., +, TPWRS Sept. 2020 3970-3980*
- Optimal Alliance Strategies Among Retailers Under Energy Deviation Settlement Mechanism in China's Forward Electricity Market. *Zhang, Z., +, TPWRS May 2020 2059-2071*
- Control engineering computing**
- Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A., +, TPWRS Sept. 2020 3459-3469*
- Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L., +, TPWRS March 2020 1646-1649*
- Control system analysis**
- Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H., +, TPWRS Sept. 2020 3603-3615*
- Control system synthesis**
- A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z., +, TPWRS Sept. 2020 3320-3331*
- Critical Clearing Time Sensitivity for Inequality Constrained Systems. *Mishra, C., +, TPWRS March 2020 1572-1583*
- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A., +, TPWRS May 2020 2037-2046*
- Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing. *Wang, Z., +, TPWRS May 2020 1812-1821*
- Distributed Stability Conditions for Power Systems With Heterogeneous Nonlinear Bus Dynamics. *Yang, P., +, TPWRS May 2020 2313-2324*
- Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M., +, TPWRS March 2020 997-1008*
- Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C., TPWRS Sept. 2020 3918-3926*
- Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S., +, TPWRS July 2020 3026-3039*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J., +, TPWRS May 2020 2002-2011*
- Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A., +, TPWRS May 2020 1923-1935*
- Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S., +, TPWRS Jan. 2020 508-515*
- Control systems**
- Analytical Reliability Evaluation of Active Distribution Systems Considering Information Link Failures. *Liu, W., +, TPWRS Nov. 2020 4167-4179*
- Optimal DC Voltage and Current Control of an LCC HVDC System to Improve Real-Time Frequency Regulation in Rectifier- and Inverter-Side Grids. *Kwon, D., +, TPWRS Nov. 2020 4539-4553*
- Controllability**
- On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K., +, TPWRS March 2020 840-853*
- Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S., +, TPWRS Jan. 2020 98-108*
- Controllers**
- Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F., +, TPWRS May 2020 2024-2036*
- Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q., +, TPWRS Jan. 2020 474-486*
- Convergence**
- A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function. *Ju, Y., +, TPWRS Nov. 2020 4896-4903*
- A Discrete-Time Non-Adaptive SOGI-Based Frequency-Locked Loop. *Yu, J., +, TPWRS Nov. 2020 4912-4915*
- Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent. *Guo, Y., +, TPWRS Nov. 2020 4505-4517*
- Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R., +, TPWRS March 2020 938-949*
- Hidden Convexities in Decentralized Coordination for the Distribution Networks. *Srikantha, P., +, TPWRS Nov. 2020 4470-4483*
- Power Flow Approach Based on the S-Iteration Process. *Tostado-Veliz, M., +, TPWRS Nov. 2020 4148-4158*
- Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. *Tang, K., +, TPWRS Nov. 2020 4836-4846*
- Convergence of numerical methods**
- A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids. *Pompodakis, E.E., +, TPWRS March 2020 1143-1155*
- A Dynamic Theory-Based Method for Computing Unstable Equilibrium Points of Power Systems. *Owusu-Mireku, R., +, TPWRS May 2020 1946-1955*
- A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. *Mitra, J., +, TPWRS March 2020 1422-1431*
- A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J., +, TPWRS March 2020 986-996*
- Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X., +, TPWRS May 2020 2047-2058*
- Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y., +, TPWRS May 2020 2412-2421*
- Convex functions**
- Correction to "Convex Relaxations of Chance Constrained AC Optimal Power Flow" [May 18 2829-2841]. *Venzke, A., +, TPWRS Sept. 2020 4142*
- Convex programming**
- hynet*: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems. *Hotz, M., +, TPWRS March 2020 1036-1047*
- A Computational Attractive Interval Power Flow Approach With Correlated Uncertain Power Injections. *Liu, B., +, TPWRS Jan. 2020 825-828*
- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B., +, TPWRS March 2020 873-886*
- A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X., +, TPWRS March 2020 1364-1375*
- Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P., +, TPWRS Sept. 2020 4014-4025*
- Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H., +, TPWRS May 2020 2133-2143*

- Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*
- Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. *Zhao, M.*, +, *TPWRS May 2020 2176-2189*
- Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F.*, +, *TPWRS July 2020 2888-2903*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*
- Feasible Path Identification in Optimal Power Flow With Sequential Convex Restriction. *Lee, D.*, +, *TPWRS Sept. 2020 3648-3659*
- From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. *Pan, K.*, +, *TPWRS March 2020 1584-1596*
- Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology. *Schipper, J.*, +, *TPWRS Sept. 2020 3953-3960*
- Convolutional neural nets**
- A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. *Azman, S.K.*, +, *TPWRS Nov. 2020 4585-4598*
- Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis. *Ryu, S.*, +, *TPWRS March 2020 1048-1060*
- Fast Cascading Outage Screening Based on Deep Convolutional Neural Network and Depth-First Search. *Du, Y.*, +, *TPWRS July 2020 2704-2715*
- Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*
- Correlation**
- A Block Version of Orthogonal Rotations for Improving the Accuracy of Hybrid State Estimators. *Bez, D.M.*, +, *TPWRS Nov. 2020 4432-4444*
- Correlation methods**
- Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS Sept. 2020 4124-4126*
- Cost function**
- Agent-Based Modeling in Electricity Market Using Deep Deterministic Policy Gradient Algorithm. *Liang, Y.*, +, *TPWRS Nov. 2020 4180-4192*
- Discussion on “Decentralized Optimal Frequency Control in Autonomous Microgrids”. *Alshehri, J.*, +, *TPWRS Nov. 2020 4972*
- Cost reduction**
- A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*
- Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*
- Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S.*, +, *TPWRS March 2020 1132-1142*
- Optimal Alliance Strategies Among Retailers Under Energy Deviation Settlement Mechanism in China's Forward Electricity Market. *Zhang, Z.*, +, *TPWRS May 2020 2059-2071*
- Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*
- Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R.*, +, *TPWRS March 2020 1274-1283*
- Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*
- Security-Constrained ACOPF: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X.*, +, *TPWRS May 2020 1936-1945*
- Cost-benefit analysis**
- Cost-Benefit Analysis of Phase Balancing Solution for Data-Scarce LV Networks by Cluster-Wise Gaussian Process Regression. *Kong, W.*, +, *TPWRS July 2020 3170-3180*
- Costing**
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*
- Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*
- Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*
- Covariance matrices**
- A Block Version of Orthogonal Rotations for Improving the Accuracy of Hybrid State Estimators. *Bez, D.M.*, +, *TPWRS Nov. 2020 4432-4444*
- Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*
- Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. *Zhou, N.*, +, *TPWRS March 2020 1479-1488*
- Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. *Wang, Y.*, +, *TPWRS Jan. 2020 691-702*
- Current measurement**
- Physics-Aware Neural Networks for Distribution System State Estimation. *Zamzam, A.S.*, +, *TPWRS Nov. 2020 4347-4356*
- PMU Missing Data Recovery Using Tensor Decomposition. *Osipov, D.*, +, *TPWRS Nov. 2020 4554-4563*
- Current transformers**
- Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T.*, +, *TPWRS March 2020 920-928*
- Customer profiles**
- A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*
- Customer services**
- A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*
- Cyber-physical systems**
- Analytical Reliability Evaluation of Active Distribution Systems Considering Information Link Failures. *Liu, W.*, +, *TPWRS Nov. 2020 4167-4179*
- Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*
- Measuring Systemic Risk of Switching Attacks Based on Cybersecurity Technologies in Substations. *Yamashita, K.*, +, *TPWRS Nov. 2020 4206-4219*

D

Damping

- A Parameter Alternating VSG Controller of VSC-MTDC Systems for Low Frequency Oscillation Damping. *Wang, W.*, +, *TPWRS Nov. 2020 4609-4621*
- A Strategy for Forced Oscillation Suppression. *Trudnowski, D.J.*, +, *TPWRS Nov. 2020 4699-4708*
- Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. *Majumder, S.*, +, *TPWRS March 2020 1231-1241*
- An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*
- Electric Power PSS With Ramp-Rejection. *Gibbard, M.J.*, +, *TPWRS Nov. 2020 4495-4504*
- Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*
- Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*
- Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C.*, *TPWRS Sept. 2020 3918-3926*
- Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. *Ling, Y.*, +, *TPWRS Nov. 2020 4263-4271*

- Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*
- Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*
- Stability Analysis on Torsional Interactions of Turbine-Generator Connected With DFIG-WECS Using Admittance Model. *Velpula, S.*, +, *TPWRS Nov. 2020 4745-4755*
- Data aggregation**
- Data-Driven Distributionally Robust Unit Commitment With Wasserstein Metric: Tractable Formulation and Efficient Solution Method. *Zheng, X.*, +, *TPWRS Nov. 2020 4940-4943*
- Data analysis**
- Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*
- Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach. *Tan, Y.*, +, *TPWRS May 2020 2475-2478*
- Data compression**
- Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis. *Ryu, S.*, +, *TPWRS March 2020 1048-1060*
- Data envelopment analysis**
- Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*
- Data integration**
- Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. *Buzau, M.*, +, *TPWRS March 2020 1254-1263*
- Data mining**
- A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. *Liu, T.*, +, *TPWRS Sept. 2020 4088-4099*
- Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*
- Resiliency-Driven Proactive Distribution System Reconfiguration With Synchrophasor Data. *Pandey, S.*, +, *TPWRS July 2020 2748-2758*
- Data models**
- Stochastic and Distributionally Robust Load Ensemble Control. *Hassan, A.*, +, *TPWRS Nov. 2020 4678-4688*
- Data privacy**
- Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q.*, +, *TPWRS Sept. 2020 3847-3856*
- Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach. *Mak, T.W.K.*, +, *TPWRS March 2020 1627-1637*
- Data structures**
- PMU Missing Data Recovery Using Tensor Decomposition. *Osipov, D.*, +, *TPWRS Nov. 2020 4554-4563*
- Database management systems**
- Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*
- DC generators**
- A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*
- DC power transmission**
- Convergence Analysis of Newton-Raphson Method in Feasible Power-Flow for DC Network. *Liu, Z.*, +, *TPWRS Sept. 2020 4100-4103*
- De-icing**
- Preventive Dispatch for Transmission De-icing. *Jafarishadeh, F.*, +, *TPWRS Sept. 2020 4104-4107*
- Decentralized control**
- Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs. *Zhao, J.*, +, *TPWRS May 2020 2443-2451*
- Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*
- Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Alshehri, J.*, +, *TPWRS Nov. 2020 4972*
- Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent. *Guo, Y.*, +, *TPWRS Nov. 2020 4505-4517*
- Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. *Ruan, H.*, +, *TPWRS Nov. 2020 4220-4231*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*
- Decision making**
- A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction. *Stappers, B.*, +, *TPWRS July 2020 3040-3050*
- Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G.*, +, *TPWRS May 2020 2339-2350*
- An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. *Zhang, Z.*, +, *TPWRS May 2020 1856-1867*
- Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*
- Fast Cumulant Method for Probabilistic Power Flow Considering the Non-linear Relationship of Wind Power Generation. *Lin, C.*, +, *TPWRS July 2020 2537-2548*
- Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y.*, +, *TPWRS May 2020 2412-2421*
- Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*
- Monopolistic and Game-Based Approaches to Transact Energy Flexibility. *Gazafroudi, A.S.*, +, *TPWRS March 2020 1075-1084*
- Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*
- Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*
- Robust Resiliency-Oriented Operation of Active Distribution Networks Considering Windstorms. *Esfahani, M.*, +, *TPWRS Sept. 2020 3481-3493*
- Decision theory**
- Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*
- Decision trees**
- PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators. *Paul, A.*, +, *TPWRS May 2020 1707-1717*
- Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*
- Degradation**
- Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. *Xu, D.*, +, *TPWRS Nov. 2020 4769-4780*
- Delays**
- Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. *Majumder, S.*, +, *TPWRS March 2020 1231-1241*
- An Efficient Method for Computing Exact Delay-Margins of Large-Scale Power Systems. *Li, C.*, +, *TPWRS Nov. 2020 4924-4927*
- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*
- Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*

Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*

Event-Triggered Load Frequency Control via Switching Approach. *Saxena, S.*, +, *TPWRS Nov. 2020 4484-4494*

Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C.*, *TPWRS Sept. 2020 3918-3926*

Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H.*, +, *TPWRS Sept. 2020 3603-3615*

Time Integration-Based IGD Methods for Eigen-Analysis of Large Delayed Cyber-Physical Power System. *Ye, H.*, +, *TPWRS March 2020 1376-1388*

Demand forecasting

Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning. *Tan, M.*, +, *TPWRS July 2020 2937-2948*

Demand response

A Scheme to Mitigate Generation Trip Events by Ancillary Services Considering Minimal Actions of UFLS. *Lai, C.*, +, *TPWRS Nov. 2020 4815-4823*

Demand side management

A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y.*, +, *TPWRS July 2020 2493-2505*

A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources. *Espinosa, L.A.D.*, +, *TPWRS Sept. 2020 3660-3670*

Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*

Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F.*, +, *TPWRS Jan. 2020 516-526*

Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*

Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*

Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*

Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*

Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*

Monopolistic and Game-Based Approaches to Transact Energy Flexibility. *Gazafroudi, A.S.*, +, *TPWRS March 2020 1075-1084*

Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. *Ponocko, J.*, +, *TPWRS May 2020 1822-1833*

Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*

On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K.*, +, *TPWRS March 2020 840-853*

Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*

Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S.*, +, *TPWRS Jan. 2020 98-108*

Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*

Differential algebraic equations

Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*

Solving Power System Differential Algebraic Equations Using Differential Transformation. *Liu, Y.*, +, *TPWRS May 2020 2289-2299*

Differential equations

Reachable Power Flow. *Zhou, Y.*, +, *TPWRS July 2020 3290-3293*

Dimensionality reduction

Data-Driven Distributionally Robust Unit Commitment With Wasserstein Metric: Tractable Formulation and Efficient Solution Method. *Zheng, X.*, +, *TPWRS Nov. 2020 4940-4943*

Diodes

Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*

Directed graphs

A Topological Sorting Approach to Identify Coherent Cut-Sets Within Power Grids. *Beiranvand, A.*, +, *TPWRS Jan. 2020 721-730*

Disasters

Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes. *Jahromi, A.A.*, +, *TPWRS Jan. 2020 440-450*

Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes. *Lagos, T.*, +, *TPWRS March 2020 1411-1421*

Robust Resiliency-Oriented Operation of Active Distribution Networks Considering Windstorms. *Esfahani, M.*, +, *TPWRS Sept. 2020 3481-3493*

Discrete-time systems

A Discrete-Time Non-Adaptive SOGI-Based Frequency-Locked Loop. *Yu, J.*, +, *TPWRS Nov. 2020 4912-4915*

Dispatching

Stochastic and Distributionally Robust Load Ensemble Control. *Hassan, A.*, +, *TPWRS Nov. 2020 4678-4688*

Distributed algorithms

A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*

A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*

A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J.*, +, *TPWRS March 2020 986-996*

Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X.*, +, *TPWRS May 2020 2047-2058*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*

Distributed control

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations. *Nazari, M.H.*, +, *TPWRS July 2020 3192-3202*

Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*

Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing. *Wang, Z.*, +, *TPWRS May 2020 1812-1821*

Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Distributed Global Economical Load Sharing for a Cluster of DC Microgrids. *Zaery, M.*, +, *TPWRS Sept. 2020 3410-3420*

Distributed Secondary Control for Islanded Microgrids With Mobile Emergency Resources. *Zhou, Q.*, +, *TPWRS March 2020 1389-1399*

Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*

Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*

PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M.*, +, *TPWRS May 2020 2268-2278*

Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q.*, +, *TPWRS Sept. 2020 3847-3856*

Distributed memory systems

Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J.*, +, *TPWRS March 2020 1340-1350*

Distributed power generation

A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function. *Ju, Y.*, +, *TPWRS Nov. 2020 4896-4903*

A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids. *Pompodakis, E.E.*, +, *TPWRS March 2020 1143-1155*

A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*

A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*

A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*

A Flexible Operation of Distributed Generation in Distribution Networks With Dynamic Boundaries. *Zhao, T.*, +, *TPWRS Sept. 2020 4127-4130*

A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*

A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*

A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources. *Espinosa, L.A.D.*, +, *TPWRS Sept. 2020 3660-3670*

A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*

A Pool Strategy of Microgrid in Power Distribution Electricity Market. *Wu, Y.*, +, *TPWRS Jan. 2020 3-12*

A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators. *Popovic, Z.N.*, +, *TPWRS Sept. 2020 3895-3905*

A Robust H_{∞} Multivariable Stabilizer Design for Droop Based Autonomous AC Microgrid. *Sharma, R.K.*, +, *TPWRS Nov. 2020 4369-4382*

A Simple Control Scheme for Improving Reactive Power Sharing in Islanded Microgrid. *Gupta, Y.*, +, *TPWRS July 2020 3158-3169*

A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*

A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*

Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*

Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*

Arbitrage With Power Factor Correction Using Energy Storage. *Hashmi, M.U.*, +, *TPWRS July 2020 2693-2703*

Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F.*, +, *TPWRS Jan. 2020 516-526*

Closure to Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation". *Song, Y.*, +, *TPWRS Nov. 2020 4975-4976*

Closure to Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Khayat, Y.*, +, *TPWRS Nov. 2020 4973*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*

Communication-Free Current Sharing Control Strategy for DC Microgrids and Its Application for AC/DC Hybrid Microgrids. *Kirakosyan, A.*, +, *TPWRS Jan. 2020 140-151*

Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*

Correction to "A Pool Strategy of Microgrid in Power Distribution Electricity Market" [Jan 20 3-12]. *Wu, Y.*, +, *TPWRS May 2020 2487*

Data-Driven Planning for Renewable Distributed Generation Integration. *Fathabad, A.M.*, +, *TPWRS Nov. 2020 4357-4368*

Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*

Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H.*, +, *TPWRS May 2020 2133-2143*

Development and Integration of Momentary Event Models in Active Distribution System Reliability Assessment. *Gautam, P.*, +, *TPWRS July 2020 3236-3246*

Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*

Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation". *Al-Ismail, F.S.*, *TPWRS Nov. 2020 4974*

Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Alshehri, J.*, +, *TPWRS Nov. 2020 4972*

Distributed and Asynchronous Active Fault Management for Networked Microgrids. *Wan, W.*, +, *TPWRS Sept. 2020 3857-3868*

Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Distributed Global Economical Load Sharing for a Cluster of DC Microgrids. *Zaery, M.*, +, *TPWRS Sept. 2020 3410-3420*

Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. *Zhao, M.*, +, *TPWRS May 2020 2176-2189*

Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*

Distributed Secondary Control for Islanded Microgrids With Mobile Emergency Resources. *Zhou, Q.*, +, *TPWRS March 2020 1389-1399*

Distributed Small-Signal Stability Conditions for Inverter-Based Unbalanced Microgrids. *Nandanoori, S.P.*, +, *TPWRS Sept. 2020 3981-3990*

Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*

Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*

Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*

Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*

Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*

Enhanced Microgrid Power Flow Incorporating Hierarchical Control. *Feng, F.*, +, *TPWRS May 2020 2463-2466*

Estimating the Robust P-Q Capability of a Technical Virtual Power Plant Under Uncertainties. *Tan, Z.*, +, *TPWRS Nov. 2020 4285-4296*

Evaluating the Influence of Momentary Cessation Mode in Inverter-Based Distributed Generators on Power System Transient Stability. *Shin, H.*, +, *TPWRS March 2020 1618-1626*

Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q.*, +, *TPWRS Jan. 2020 474-486*

Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes. *Lagos, T.*, +, *TPWRS March 2020 1411-1421*

Implicit Z_{bus} Gauss Algorithm Revisited. *Feng, F.*, +, *TPWRS Sept. 2020 4108-4111*

Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TPWRS Jan. 2020 762-772*

- Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment. *Bharati, A.K.*, +, *TPWRS May 2020 2072-2081*
- Microgrid Stability Definitions, Analysis, and Examples. *Farrokhbadi, M.*, +, *TPWRS Jan. 2020 13-29*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*
- Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*
- Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. *Strezoski, L.V.*, +, *TPWRS March 2020 1209-1217*
- Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*
- Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*
- Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*
- Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*
- Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S.*, +, *TPWRS Jan. 2020 98-108*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*
- Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*
- PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M.*, +, *TPWRS May 2020 2268-2278*
- Power Market Model in Presence of Strategic Prosumers. *Ramyar, S.*, +, *TPWRS March 2020 898-908*
- Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q.*, +, *TPWRS Sept. 2020 3847-3856*
- Quantifying Market Efficiency Impacts of Aggregated Distributed Energy Resources. *Alshehri, K.*, +, *TPWRS Sept. 2020 4067-4077*
- Reachable Power Flow. *Zhou, Y.*, +, *TPWRS July 2020 3290-3293*
- Robust Resiliency-Oriented Operation of Active Distribution Networks Considering Windstorms. *Esfahani, M.*, +, *TPWRS Sept. 2020 3481-3493*
- Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*
- Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*
- Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*
- Singular Perturbation for the Dynamic Modeling of Integrated Energy Systems. *Shen, F.*, +, *TPWRS May 2020 1718-1728*
- Sliding Framework for Inverter-Based Microgrid Control. *Li, Y.*, +, *TPWRS March 2020 1657-1660*
- Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W.*, +, *TPWRS July 2020 2609-2618*
- Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Venelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*
- Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*
- Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TPWRS Nov. 2020 4836-4846*
- The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*
- Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q.*, +, *TPWRS July 2020 3004-3014*
- Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*
- Distribution networks**
- A Flexible Operation of Distributed Generation in Distribution Networks With Dynamic Boundaries. *Zhao, T.*, +, *TPWRS Sept. 2020 4127-4130*
- A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators. *Popovic, Z.N.*, +, *TPWRS Sept. 2020 3895-3905*
- A Statistical Approach to Guide Phase Swapping for Data-Scarce Low Voltage Networks. *Fang, L.*, +, *TPWRS Jan. 2020 751-761*
- Adversarial Feature Learning of Online Monitoring Data for Operational Risk Assessment in Distribution Networks. *Shi, X.*, +, *TPWRS March 2020 975-985*
- Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*
- Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*
- Dynamic Aggregation of Grid-Tied Three-Phase Inverters. *Purba, V.*, +, *TPWRS March 2020 1520-1530*
- Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems. *Bizzarri, F.*, +, *TPWRS March 2020 1284-1293*
- Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*
- Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*
- Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*
- Load Flow-Based Method for Nontechnical Electrical Loss Detection and Location in Distribution Systems Using Smart Meters. *Ferreira, T.S.D.*, +, *TPWRS Sept. 2020 3671-3681*
- Optimal Distributed Feedback Voltage Control Under Limited Reactive Power. *Qu, G.*, +, *TPWRS Jan. 2020 315-331*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*
- Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*
- Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. *Zhou, N.*, +, *TPWRS March 2020 1479-1488*
- Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification. *Liu, S.*, +, *TPWRS March 2020 1653-1656*
- Robust Resiliency-Oriented Operation of Active Distribution Networks Considering Windstorms. *Esfahani, M.*, +, *TPWRS Sept. 2020 3481-3493*
- Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. *Roca, I.L.*, +, *TPWRS Jan. 2020 284-292*
- Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*
- Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. *Zhang, Y.*, +, *TPWRS May 2020 2471-2474*
- District heating**
- Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*

On An Equivalent Representation of the Dynamics in District Heating Networks for Combined Electricity-Heat Operation. *Yang, J.*, +, *TPWRS Jan. 2020 560-570*

Thermal Inertial Aggregation Model for Integrated Energy Systems. *Lu, S.*, +, *TPWRS May 2020 2374-2387*

Divide and conquer methods

Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*

Doubly fed induction generators

Stability Analysis on Torsional Interactions of Turbine-Generator Connected With DFIG-WECS Using Admittance Model. *Velupula, S.*, +, *TPWRS Nov. 2020 4745-4755*

Duality (mathematics)

Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*

Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*

Dynamic programming

Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F.*, +, *TPWRS Jan. 2020 516-526*

Dynamic response

Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing. *Wang, Z.*, +, *TPWRS May 2020 1812-1821*

E

Econometrics

Inverse Equilibrium Analysis of Oligopolistic Electricity Markets. *Risanger, S.*, +, *TPWRS Nov. 2020 4159-4166*

Economic forecasting

Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*

Educational courses

A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems. *Cordeiro, A.*, +, *TPWRS May 2020 2144-2154*

Eigenvalues and eigenfunctions

A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. *Ugwuanyi, N.S.*, +, *TPWRS July 2020 3247-3257*

Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*

An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*

An Efficient Method for Computing Exact Delay-Margins of Large-Scale Power Systems. *Li, C.*, +, *TPWRS Nov. 2020 4924-4927*

Application of Detectability Analysis for Power System Dynamic State Estimation. *Zhou, N.*, +, *TPWRS July 2020 3274-3277*

Automated Design of Realistic Contingencies for Big Data Generation. *Bogodorova, T.*, +, *TPWRS Nov. 2020 4968-4971*

Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*

Estimation of Parameters of a Dynamic Generator Model From Modal PMU Measurements. *Gorbunov, A.*, +, *TPWRS Jan. 2020 53-62*

Exhaustive Modal Analysis of Large-Scale Interconnected Power Systems With High Power Electronics Penetration. *Kouki, M.*, +, *TPWRS July 2020 2759-2768*

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*

Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*

Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*

Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*

Modal Participation Factors of Algebraic Variables. *Tzounas, G.*, +, *TPWRS Jan. 2020 742-750*

Reachable Eigenanalysis. *Zhou, Y.*, +, *TPWRS Nov. 2020 4936-4939*

Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes. *Shim, J.W.*, +, *TPWRS Nov. 2020 4655-4665*

Electric admittance

Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*

Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance. *Xia, Y.*, +, *TPWRS May 2020 2120-2132*

Electric current control

Communication-Free Current Sharing Control Strategy for DC Microgrids and Its Application for AC/DC Hybrid Microgrids. *Kirakosyan, A.*, +, *TPWRS Jan. 2020 140-151*

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

Strength Evaluation of Multi-Infed LCC-HVDC Systems Based on the Virtual Impedance Concept. *Xiao, H.*, +, *TPWRS July 2020 2863-2875*

The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*

Electric current measurement

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

Electric generators

PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators. *Paul, A.*, +, *TPWRS May 2020 1707-1717*

Electric heating

On An Equivalent Representation of the Dynamics in District Heating Networks for Combined Electricity-Heat Operation. *Yang, J.*, +, *TPWRS Jan. 2020 560-570*

Electric impedance

A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids. *Pompodakis, E.E.*, +, *TPWRS March 2020 1143-1155*

Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*

Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance. *Xia, Y.*, +, *TPWRS May 2020 2120-2132*

Electric machine analysis computing

PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators. *Paul, A.*, +, *TPWRS May 2020 1707-1717*

Electric potential

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*

Electric resistance

Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H.*, +, *TPWRS May 2020 2133-2143*

Electric vehicle charging

A Cluster-Based Operation Model of Aggregated Battery Swapping Stations. *Sepehri, K.*, +, *TPWRS Jan. 2020 249-260*

Electric vehicles

A Model to Mitigate Forecast Uncertainties in Distribution Systems Using the Temporal Flexibility of EVs. *Lu, X.*, +, *TPWRS May 2020 2212-2221*

Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes. *Jahromi, A.A.*, +, *TPWRS Jan. 2020 440-450*

- Event-Triggered Load Frequency Control via Switching Approach. *Saxena, S.*, +, *TPWRS Nov. 2020 4484-4494*
- Scenario-Wise Distributionally Robust Optimization for Collaborative Intermittent Resources and Electric Vehicle Aggregator Bidding Strategy. *Hajebrahimi, A.*, +, *TPWRS Sept. 2020 3706-3718*
- Electricity supply industry**
- Agent-Based Modeling in Electricity Market Using Deep Deterministic Policy Gradient Algorithm. *Liang, Y.*, +, *TPWRS Nov. 2020 4180-4192*
- Correction to “A Pool Strategy of Microgrid in Power Distribution Electricity Market” [Jan 20 3-12]. *Wu, Y.*, +, *TPWRS May 2020 2487*
- Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part II: Practice. *Zhao, F.*, +, *TPWRS Nov. 2020 4888-4895*
- Economic Interpretation of Demand Curves in Multi-Product Electricity Markets–Part I: Theory. *Zhao, F.*, +, *TPWRS Nov. 2020 4880-4887*
- Fast Security-Constrained Optimal Power Flow Through Low-Impact and Redundancy Screening. *Weinhold, R.*, +, *TPWRS Nov. 2020 4574-4584*
- Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. *Buzau, M.*, +, *TPWRS March 2020 1254-1263*
- Inverse Equilibrium Analysis of Oligopolistic Electricity Markets. *Risanger, S.*, +, *TPWRS Nov. 2020 4159-4166*
- Participation of Pumped Hydro Storage in Energy and Performance-Based Regulation Markets. *Alharbi, H.*, +, *TPWRS Nov. 2020 4307-4323*
- Electrochemical processes**
- Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. *Xu, D.*, +, *TPWRS Nov. 2020 4769-4780*
- Embedded systems**
- On the Holomorphic and Conjugate Properties for Holomorphic Embedding Methods for Solving Power Flow Equations. *Wang, T.*, +, *TPWRS July 2020 2506-2515*
- EMTP**
- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*
- Emulation**
- Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View. *Golpira, H.*, +, *TPWRS Nov. 2020 4824-4835*
- Energy conservation**
- Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*
- Thermal Inertial Aggregation Model for Integrated Energy Systems. *Lu, S.*, +, *TPWRS May 2020 2374-2387*
- Energy consumption**
- A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*
- Cost-Benefit Analysis of Phase Balancing Solution for Data-Scarce LV Networks by Cluster-Wise Gaussian Process Regression. *Kong, W.*, +, *TPWRS July 2020 3170-3180*
- Energy Trading and Generalized Nash Equilibrium in Combined Heat and Power Market. *Wu, C.*, +, *TPWRS Sept. 2020 3378-3387*
- Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. *Buzau, M.*, +, *TPWRS March 2020 1254-1263*
- The Use of Extreme Value Theory for Forecasting Long-Term Substation Maximum Electricity Demand. *Li, Y.*, +, *TPWRS Jan. 2020 128-139*
- Energy loss**
- A Novel Probabilistic Method for Energy Loss Estimation Using Minimal Line Current Information. *Wu, H.*, +, *TPWRS Nov. 2020 4928-4931*
- Energy management systems**
- A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*
- A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*
- Coalitional Game-Based Transactive Energy Management in Local Energy Communities. *Feng, C.*, +, *TPWRS May 2020 1729-1740*
- Energy Trading and Generalized Nash Equilibrium in Combined Heat and Power Market. *Wu, C.*, +, *TPWRS Sept. 2020 3378-3387*
- Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X.*, +, *TPWRS March 2020 1549-1561*
- Online Periodic Coordination of Multiple Pulsed Loads on All-Electric Ships. *Xie, R.*, +, *TPWRS July 2020 2658-2669*
- Energy resources**
- Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S.*, +, *TPWRS March 2020 1132-1142*
- Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q.*, +, *TPWRS Jan. 2020 474-486*
- Energy storage**
- A Flexible Control Strategy to Prevent Sending-End Power System From Transient Instability Under HVDC Repetitive Commutation Failures. *Wang, W.*, +, *TPWRS Nov. 2020 4445-4458*
- A Multi-Period Market Design for Markets With Intertemporal Constraints. *Zhao, J.*, +, *TPWRS July 2020 3015-3025*
- A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources. *Espinosa, L.A.D.*, +, *TPWRS Sept. 2020 3660-3670*
- A Scheme to Mitigate Generation Trip Events by Ancillary Services Considering Minimal Actions of UFLS. *Lai, C.*, +, *TPWRS Nov. 2020 4815-4823*
- Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *Cao, Y.*, +, *TPWRS Nov. 2020 4908-4911*
- Arbitrage With Power Factor Correction Using Energy Storage. *Hashmi, M.U.*, +, *TPWRS July 2020 2693-2703*
- Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Closure to Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids”. *Lee, J.*, +, *TPWRS Sept. 2020 4139*
- Correction to “Minimizing Unserved Energy Using Heterogeneous Storage Units” [Sep 19 3647-3656]. *Evans, M.P.*, +, *TPWRS Sept. 2020 4144*
- Day-Ahead Contingency-Constrained Unit Commitment With Co-Optimized Post-Contingency Transmission Switching. *Saavedra, R.*, +, *TPWRS Nov. 2020 4408-4420*
- Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids”. *Khalid, M.*, *TPWRS Sept. 2020 4138*
- Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*
- Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*
- Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. *Ling, Y.*, +, *TPWRS Nov. 2020 4263-4271*
- Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*
- Impact of Market Timing on the Profit of a Risk-Averse Load Aggregator. *Herre, L.*, +, *TPWRS Sept. 2020 3970-3980*
- Improving AGC Performance in Power Systems With Regulation Response Accuracy Margins Using Battery Energy Storage System (BESS). *Doenges, K.*, +, *TPWRS July 2020 2816-2825*
- Model-Free Fast Frequency Control Support With Energy Storage System. *Liu, W.*, +, *TPWRS July 2020 3078-3086*
- On the Reduction of the Rated Power of Energy Storage System in Wind Farms. *Koivi, K.*, +, *TPWRS July 2020 2586-2596*
- On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning. *Arroyo, J.M.*, +, *TPWRS Nov. 2020 4964-4967*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*

Participation of Pumped Hydro Storage in Energy and Performance-Based Regulation Markets. *Alharbi, H.*, +, *TPWRS Nov. 2020 4307-4323*

Power-Based Generation Expansion Planning for Flexibility Requirements. *Tejada-Arango, D.A.*, +, *TPWRS May 2020 2012-2023*

Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*

Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*

Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*

Environmental economics

Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*

Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F.*, +, *TPWRS Jan. 2020 516-526*

Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*

Equivalent circuits

Enhanced Modelling Framework for Equivalent Circuit-Based Power System State Estimation. *Jovicic, A.*, +, *TPWRS Sept. 2020 3790-3799*

Estimation error

Local Frequency-Based Estimation of the Rate of Change of Frequency of the Center of Inertia. *Azizi, S.*, +, *TPWRS Nov. 2020 4948-4951*

Estimation theory

Impact of Synchrophasor Estimation Algorithms in ROCOF-Based Under-Frequency Load-Shedding. *Zuo, Y.*, +, *TPWRS March 2020 1305-1316*

Probabilistic Power Flow Based on a Gaussian Process Emulator. *Xu, Y.*, +, *TPWRS July 2020 3278-3281*

Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*

Event detection

A Real Time Event Detection, Classification and Localization Using Synchrophasor Data. *Pandey, S.*, +, *TPWRS Nov. 2020 4421-4431*

Exciters

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

F

Failure analysis

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations. *Nazari, M.H.*, +, *TPWRS July 2020 3192-3202*

Development and Integration of Momentary Event Models in Active Distribution System Reliability Assessment. *Gautam, P.*, +, *TPWRS July 2020 3236-3246*

Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures. *Robak, S.*, +, *TPWRS May 2020 2422-2430*

Probabilistic Operational Reliability of Composite Power Systems Considering Multiple Meteorological Factors. *Chen, X.*, +, *TPWRS Jan. 2020 85-97*

Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*

Theoretical Parameter Design Method of SFCL for Concurrent Commutation Failure Inhibition in SFCL-Segmented Multi-Infeed LCC-HVDC Systems. *Li, Y.*, +, *TPWRS May 2020 1741-1757*

Fault current limiters

Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach. *Esmaili, M.*, +, *TPWRS Nov. 2020 4396-4407*

Fault currents

Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. *Strezoski, L.V.*, +, *TPWRS March 2020 1209-1217*

Performance Analysis of Skewness Methods for Asymmetry Detection in High Impedance Faults. *Ozansoy, C.*, *TPWRS Nov. 2020 4952-4955*

Fault diagnosis

Availability Assessment Based Case-Sensitive Power System Restoration Strategy. *Liu, W.*, +, *TPWRS March 2020 1432-1445*

Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*

Performance Analysis of Skewness Methods for Asymmetry Detection in High Impedance Faults. *Ozansoy, C.*, *TPWRS Nov. 2020 4952-4955*

Transfer Learning-Based Power System Online Dynamic Security Assessment: Using One Model to Assess Many Unlearned Faults. *Ren, C.*, +, *TPWRS Jan. 2020 821-824*

Fault tolerant control

Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Feature extraction

A Data-Based Learning and Control Method for Long-Term Voltage Stability. *Cai, H.*, +, *TPWRS July 2020 3203-3212*

Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis. *Ryu, S.*, +, *TPWRS March 2020 1048-1060*

Fast Cascading Outage Screening Based on Deep Convolutional Neural Network and Depth-First Search. *Du, Y.*, +, *TPWRS July 2020 2704-2715*

Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning. *Tan, M.*, +, *TPWRS July 2020 2937-2948*

Feedback

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*

Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*

Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*

New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J.*, +, *TPWRS May 2020 1967-1978*

Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*

Feedback control

A Strategy for Forced Oscillation Suppression. *Trudnowski, D.J.*, +, *TPWRS Nov. 2020 4699-4708*

Feedforward

Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*

Feedforward neural networks

Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L.*, +, *TPWRS March 2020 1646-1649*

Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*

PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators. *Paul, A.*, +, *TPWRS May 2020 1707-1717*

Field programmable gate arrays

Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*

Filtering algorithms

Blind Kalman Filtering for Short-Term Load Forecasting. *Sharma, S.*, +, *TPWRS Nov. 2020 4916-4919*

Filtering theory

An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS March 2020 1642-1645*

- Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems. *Hao, Y.*, +, *TPWRS March 2020 1166-1177*
- Financial management**
- Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*
- Flexible AC transmission systems**
- Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. *Chakhchoukh, Y.*, +, *TPWRS March 2020 1188-1197*
- Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVDC Power Systems. *Nguyen, Q.*, +, *TPWRS May 2020 1979-1989*
- Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. *Varma, R.K.*, +, *TPWRS Nov. 2020 4251-4262*
- State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. *Chitsazan, M.A.*, +, *TPWRS Jan. 2020 238-248*
- Flow measurement**
- External System Generator Outage Localization Based on Tie-Line Synchrophasor Measurements. *Dai, Z.*, +, *TPWRS March 2020 1597-1605*
- Forecasting theory**
- Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*
- Fourier series**
- Online Periodic Coordination of Multiple Pulsed Loads on All-Electric Ships. *Xie, R.*, +, *TPWRS July 2020 2658-2669*
- Fourier transforms**
- Beyond Phasors: Modeling of Power System Signals Using the Hilbert Transform. *Derviskadic, A.*, +, *TPWRS July 2020 2971-2980*
- Fractional calculus**
- Theory and Implementation of Fractional Order Controllers for Power System Applications. *Tzounas, G.*, +, *TPWRS Nov. 2020 4622-4631*
- Fraud**
- Fraud Detection in Electric Power Distribution: An Approach That Maximizes the Economic Return. *Massafiero, P.*, +, *TPWRS Jan. 2020 703-710*
- Freezing**
- Preventive Dispatch for Transmission De-icing. *Jafarishiadeh, F.*, +, *TPWRS Sept. 2020 4104-4107*
- Frequency control**
- A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*
- A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*
- A Multi-Agent Deep Reinforcement Learning Method for Cooperative Load Frequency Control of a Multi-Area Power System. *Yan, Z.*, +, *TPWRS Nov. 2020 4599-4608*
- A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*
- A Scheme to Mitigate Generation Trip Events by Ancillary Services Considering Minimal Actions of UFLS. *Lai, C.*, +, *TPWRS Nov. 2020 4815-4823*
- An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance. *Liu, L.*, +, *TPWRS July 2020 2527-2536*
- Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations. *Nazari, M.H.*, +, *TPWRS July 2020 3192-3202*
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*
- Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C.*, +, *TPWRS March 2020 950-961*
- Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L.*, +, *TPWRS March 2020 1646-1649*
- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*
- Design of Resonance Damper for Wind Energy Conversion System Providing Frequency Support Service to Low Inertia Power Systems. *Manaz, M.A.M.*, +, *TPWRS Nov. 2020 4297-4306*
- Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Alshehri, J.*, +, *TPWRS Nov. 2020 4972*
- Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*
- Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *Mahish, P.*, +, *TPWRS Jan. 2020 362-373*
- Economic-Driven Frequency Regulation in Multi-Terminal HVDC Systems: A Cooperative Distributed Approach. *Jia, Y.*, +, *TPWRS May 2020 2245-2255*
- Explicit MPC Based on the Galerkin Method for AGC Considering Volatile Generations. *Qiu, Y.*, +, *TPWRS Jan. 2020 462-473*
- Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*
- Implementation of Transient Stability Model of Compressed Air Energy Storage Systems. *Calero, I.*, +, *TPWRS Nov. 2020 4734-4744*
- Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*
- Load Frequency Control in Variable Inertia Systems. *Syed, M.H.*, +, *TPWRS Nov. 2020 4904-4907*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*
- Model-Free Fast Frequency Control Support With Energy Storage System. *Liu, W.*, +, *TPWRS July 2020 3078-3086*
- Modeling Frequency Dynamics in Unit Commitment With a High Share of Renewable Energy. *Zhang, Z.*, +, *TPWRS Nov. 2020 4383-4395*
- Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*
- Optimal DC Voltage and Current Control of an LCC HVDC System to Improve Real-Time Frequency Regulation in Rectifier- and Inverter-Side Grids. *Kwon, D.*, +, *TPWRS Nov. 2020 4539-4553*
- Optimal Mileage Based AGC Dispatch of a GenCo. *Zhang, X.*, +, *TPWRS July 2020 2516-2526*
- PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M.*, +, *TPWRS May 2020 2268-2278*
- PLL and Additional Frequency Control Constituting an Adaptive Synchronization Mechanism for VSCs. *Zhang, M.*, +, *TPWRS Nov. 2020 4920-4923*
- Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*
- Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H.*, +, *TPWRS Sept. 2020 3603-3615*
- Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Venelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*
- Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*
- Theory and Implementation of Fractional Order Controllers for Power System Applications. *Tzounas, G.*, +, *TPWRS Nov. 2020 4622-4631*
- Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z.*, +, *TPWRS Sept. 2020 4056-4066*
- Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*
- Frequency estimation**
- Local Frequency-Based Estimation of the Rate of Change of Frequency of the Center of Inertia. *Azizi, S.*, +, *TPWRS Nov. 2020 4948-4951*

The Effects of Forced Oscillation Frequency Estimation Error on the LS-ARMA+S Mode Meter. *Dosiek, L., TPWRS March 2020 1650-1652*

Frequency locked loops

A Discrete-Time Non-Adaptive SOGI-Based Frequency-Locked Loop. *Yu, J., +, TPWRS Nov. 2020 4912-4915*

Frequency measurement

Estimation of Voltage Dependent Load Models Through Power and Frequency Measurements. *Ortega, A., +, TPWRS July 2020 3308-3311*

Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data. *Wang, W., +, TPWRS May 2020 2483-2486*

Frequency response

A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M., +, TPWRS Jan. 2020 594-604*

Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. *Majumder, S., +, TPWRS March 2020 1231-1241*

An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance. *Liu, L., +, TPWRS July 2020 2527-2536*

Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D., +, TPWRS Sept. 2020 3825-3834*

Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data. *Wang, W., +, TPWRS May 2020 2483-2486*

Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M., +, TPWRS March 2020 997-1008*

Load Frequency Control in Variable Inertia Systems. *Syed, M.H., +, TPWRS Nov. 2020 4904-4907*

Model-Free Fast Frequency Control Support With Energy Storage System. *Liu, W., +, TPWRS July 2020 3078-3086*

Modeling Frequency Dynamics in Unit Commitment With a High Share of Renewable Energy. *Zhang, Z., +, TPWRS Nov. 2020 4383-4395*

Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems. *Badesa, L., +, TPWRS Nov. 2020 4459-4469*

Stochastic Unit Commitment in Low-Inertia Grids. *Paturet, M., +, TPWRS Sept. 2020 3448-3458*

Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z., +, TPWRS Sept. 2020 4056-4066*

Frequency stability

Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C., +, TPWRS March 2020 950-961*

The Influence of Network Factors on Frequency Stability. *Fradley, J., +, TPWRS July 2020 2826-2834*

Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z., +, TPWRS Sept. 2020 4056-4066*

Frequency-domain analysis

Analytical Reliability Evaluation of Active Distribution Systems Considering Information Link Failures. *Liu, W., +, TPWRS Nov. 2020 4167-4179*

Function approximation

Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G., +, TPWRS May 2020 2339-2350*

Fuzzy control

Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X., +, TPWRS March 2020 962-974*

Fuzzy logic

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H., +, TPWRS Sept. 2020 3400-3409*

Fuzzy set theory

A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H., +, TPWRS July 2020 3262-3265*

Uncertainty Analysis Using Fuzzy Transformation Method: An Application in Power-Flow Studies. *Aghili, S.J., +, TPWRS Jan. 2020 42-52*

G

Gain

A Strategy for Forced Oscillation Suppression. *Trudnowski, D.J., +, TPWRS Nov. 2020 4699-4708*

Galerkin method

Explicit MPC Based on the Galerkin Method for AGC Considering Volatile Generations. *Qiu, Y., +, TPWRS Jan. 2020 462-473*

Game theory

A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y., +, TPWRS July 2020 2493-2505*

A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F., +, TPWRS July 2020 3133-3144*

A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S., +, TPWRS May 2020 2232-2244*

A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X., +, TPWRS Sept. 2020 3562-3573*

Agent-Based Modeling in Electricity Market Using Deep Deterministic Policy Gradient Algorithm. *Liang, Y., +, TPWRS Nov. 2020 4180-4192*

Coalitional Game-Based Transactive Energy Management in Local Energy Communities. *Feng, C., +, TPWRS May 2020 1729-1740*

Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H., +, TPWRS Jan. 2020 639-651*

Energy Trading and Generalized Nash Equilibrium in Combined Heat and Power Market. *Wu, C., +, TPWRS Sept. 2020 3378-3387*

From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. *Pan, K., +, TPWRS March 2020 1584-1596*

Monopolistic and Game-Based Approaches to Transact Energy Flexibility. *Gazafroudi, A.S., +, TPWRS March 2020 1075-1084*

On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K., +, TPWRS March 2020 840-853*

Optimal Alliance Strategies Among Retailers Under Energy Deviation Settlement Mechanism in China's Forward Electricity Market. *Zhang, Z., +, TPWRS May 2020 2059-2071*

Quantifying Market Efficiency Impacts of Aggregated Distributed Energy Resources. *Alshehri, K., +, TPWRS Sept. 2020 4067-4077*

Resource Adequacy in Electricity Markets With Renewable Energy. *Kwon, J., +, TPWRS Jan. 2020 773-781*

Games

A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning. *Wang, S., +, TPWRS Nov. 2020 4644-4654*

Gas industry

Unit Commitment With Gas Network Awareness. *Byeon, G., +, TPWRS March 2020 1327-1339*

Gas turbines

Towards Accurate Modeling on Configuration Transitions and Dynamic Ramping of Combined-Cycle Units in UC Problems. *Liu, Y., +, TPWRS May 2020 2200-2211*

Gaussian distribution

Correction to "Convex Relaxations of Chance Constrained AC Optimal Power Flow" [May 18 2829-2841]. *Venzke, A., +, TPWRS Sept. 2020 4142*

Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F., +, TPWRS July 2020 2888-2903*

Gaussian noise

An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise. *Ahmad, T., +, TPWRS March 2020 1642-1645*

Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T., +, TPWRS Sept. 2020 4124-4126*

Gaussian processes

Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y., +, TPWRS July 2020 2769-2782*

Cost-Benefit Analysis of Phase Balancing Solution for Data-Scarce LV Networks by Cluster-Wise Gaussian Process Regression. *Kong, W., +, TPWRS July 2020 3170-3180*

Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing. *Dobbe, R., +, TPWRS May 2020 1674-1683*
 Probabilistic Power Flow Based on a Gaussian Process Emulator. *Xu, Y., +, TPWRS July 2020 3278-3281*

Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T., +, TPWRS March 2020 920-928*

Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T., +, TPWRS Jan. 2020 539-550*

Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D., +, TPWRS May 2020 1663-1673*

Generators

A Robust Dynamic State Estimation Approach Against Model Errors Caused by Load Changes. *Wang, S., +, TPWRS Nov. 2020 4518-4527*

An Extended Integral Unit Commitment Formulation and an Iterative Algorithm for Convex Hull Pricing. *Yu, Y., +, TPWRS Nov. 2020 4335-4346*

Day-Ahead Contingency-Constrained Unit Commitment With Co-Optimized Post-Contingency Transmission Switching. *Saavedra, R., +, TPWRS Nov. 2020 4408-4420*

Design of Resonance Damper for Wind Energy Conversion System Providing Frequency Support Service to Low Inertia Power Systems. *Manaz, M.A.M., +, TPWRS Nov. 2020 4297-4306*

Electric Power PSS With Ramp-Rejection. *Gibbard, M.J., +, TPWRS Nov. 2020 4495-4504*

Local Frequency-Based Estimation of the Rate of Change of Frequency of the Center of Inertia. *Azizi, S., +, TPWRS Nov. 2020 4948-4951*

Low-Carbon Electricity Network Transition Considering Retirement of Aging Coal Generators. *Shen, W., +, TPWRS Nov. 2020 4193-4205*

On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning. *Arroyo, J.M., +, TPWRS Nov. 2020 4964-4967*

Participation of Pumped Hydro Storage in Energy and Performance-Based Regulation Markets. *Alharbi, H., +, TPWRS Nov. 2020 4307-4323*

Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. *Park, B., +, TPWRS Nov. 2020 4324-4334*

Reexamining the Distributed Slack Bus. *Dhople, S.V., +, TPWRS Nov. 2020 4870-4879*

Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach. *Esmaili, M., +, TPWRS Nov. 2020 4396-4407*

Genetic algorithms

A Novel Method for Hourly Electricity Demand Forecasting. *Zhang, G., +, TPWRS March 2020 1351-1363*

A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O., +, TPWRS Jan. 2020 227-237*

A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H., +, TPWRS July 2020 3262-3265*

An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A., +, TPWRS May 2020 2351-2361*

An Improved Genetic Algorithm Approach to the Unit Commitment/Economic Dispatch Problem. *Ponciroli, R., +, TPWRS Sept. 2020 4005-4013*

Kriging Assisted Surrogate Evolutionary Computation to Solve Optimal Power Flow Problems. *Deng, Z., +, TPWRS March 2020 831-839*

Geographic information systems

The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C., +, TPWRS Jan. 2020 119-127*

Geologic measurements

A GIC Estimator for Electric Grid Monitoring During Geomagnetic Disturbances. *Klauber, C., +, TPWRS Nov. 2020 4847-4855*

Government policies

Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G., +, TPWRS May 2020 2339-2350*

Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y., +, TPWRS July 2020 3145-3157*

Gradient methods

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y., +, TPWRS March 2020 1109-1119*

A Dynamic Theory-Based Method for Computing Unstable Equilibrium Points of Power Systems. *Owusu-Mireku, R., +, TPWRS May 2020 1946-1955*

A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. *Mitra, J., +, TPWRS March 2020 1422-1431*

A Variable Reduction Method for Large-Scale Unit Commitment. *Li, X., +, TPWRS Jan. 2020 261-272*

Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X., +, TPWRS May 2020 2047-2058*

Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y., +, TPWRS May 2020 2412-2421*

Graph theory

A New Fully Parallel BBDF Method in Transient Stability Simulations. *Xiao, T., +, TPWRS Jan. 2020 304-314*

A Real Time Event Detection, Classification and Localization Using Synchrophasor Data. *Pandey, S., +, TPWRS Nov. 2020 4421-4431*

Development and Integration of Momentary Event Models in Active Distribution System Reliability Assessment. *Gautam, P., +, TPWRS July 2020 3236-3246*

Distributed Cooperative Scheme for Forced Oscillation Location Identification in Power Systems. *Wu, X., +, TPWRS Jan. 2020 374-384*

Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T., +, TPWRS Jan. 2020 539-550*

Greedy algorithms

A Greedy Algorithm for Observability Analysis. *Herrero, H., +, TPWRS March 2020 1638-1641*

Grid computing

Quantum Computing for Enhancing Grid Security. *Eskandarpour, R., +, TPWRS Sept. 2020 4135-4137*

H

H_∞ filters

Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. *Wang, Y., +, TPWRS Jan. 2020 691-702*

Hardware-in-the loop simulation

Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S., +, TPWRS July 2020 3026-3039*

Harmonic analysis

Separable Estimation of Ambient Noise Spectrum in Synchrophasor Measurements in the Presence of Forced Oscillations. *Khan, M.A., +, TPWRS Jan. 2020 415-423*

Hazards

Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes. *Lagos, T., +, TPWRS March 2020 1411-1421*

Heat pumps

On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K., +, TPWRS March 2020 840-853*

Hermitian matrices

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H., +, TPWRS Sept. 2020 3529-3540*

Hessian matrices

A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. *Ugwuanyi, N.S., +, TPWRS July 2020 3247-3257*

Hidden Markov models

Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. *Roca, I.L., +, TPWRS Jan. 2020 284-292*

Higher order statistics

Fast Cumulant Method for Probabilistic Power Flow Considering the Non-linear Relationship of Wind Power Generation. *Lin, C.*, +, *TPWRS July 2020 2537-2548*

Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS Sept. 2020 4124-4126*

Hilbert transforms

Beyond Phasors: Modeling of Power System Signals Using the Hilbert Transform. *Derviskadic, A.*, +, *TPWRS July 2020 2971-2980*

HVDC power converters

A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*

Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*

Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F.*, +, *TPWRS Jan. 2020 385-394*

Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*

Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing. *Wang, Z.*, +, *TPWRS May 2020 1812-1821*

Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*

Economic-Driven Frequency Regulation in Multi-Terminal HVDC Systems: A Cooperative Distributed Approach. *Jia, Y.*, +, *TPWRS May 2020 2245-2255*

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*

Strength Evaluation of Multi-Infeed LCC-HVDC Systems Based on the Virtual Impedance Concept. *Xiao, H.*, +, *TPWRS July 2020 2863-2875*

Theoretical Parameter Design Method of SFCL for Concurrent Commutation Failure Inhibition in SFCL-Segmented Multi-Infeed LCC-HVDC Systems. *Li, Y.*, +, *TPWRS May 2020 1741-1757*

HVDC power transmission

hynet: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems. *Hotz, M.*, +, *TPWRS March 2020 1036-1047*

A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*

An Open-Source Protection IED for Research and Education in Multiterminal HVDC Grids. *Jahn, I.*, +, *TPWRS July 2020 2949-2958*

Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*

Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F.*, +, *TPWRS Jan. 2020 385-394*

Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*

Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

Market Integration of HVDC Lines: Internalizing HVDC Losses in Market Clearing. *Tosatto, A.*, +, *TPWRS Jan. 2020 451-461*

Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids. *Mehrabankhomartash, M.*, +, *TPWRS Jan. 2020 177-187*

Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*

Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Venelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*

Strength Evaluation of Multi-Infeed LCC-HVDC Systems Based on the Virtual Impedance Concept. *Xiao, H.*, +, *TPWRS July 2020 2863-2875*

Theoretical Parameter Design Method of SFCL for Concurrent Commutation Failure Inhibition in SFCL-Segmented Multi-Infeed LCC-HVDC Systems. *Li, Y.*, +, *TPWRS May 2020 1741-1757*

HVDC transmission

A Flexible Control Strategy to Prevent Sending-End Power System From Transient Instability Under HVDC Repetitive Commutation Failures. *Wang, W.*, +, *TPWRS Nov. 2020 4445-4458*

Correction to "Convex Relaxations of Probabilistic AC Optimal Power Flow for Interconnected AC and HVDC Grids" [Jul 19 2706-2718]. *Venzke, A.*, +, *TPWRS Sept. 2020 4143*

Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS Nov. 2020 4944-4947*

Optimal DC Voltage and Current Control of an LCC HVDC System to Improve Real-Time Frequency Regulation in Rectifier- and Inverter-Side Grids. *Kwon, D.*, +, *TPWRS Nov. 2020 4539-4553*

Hybrid power systems

Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F.*, +, *TPWRS Jan. 2020 516-526*

Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*

Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS Nov. 2020 4944-4947*

Hydraulic turbines

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Hydroelectric power generation

Stochastic Online Generation Control of Cascaded Run-of-the-River Hydropower for Mitigating Solar Power Volatility. *Qiu, Y.*, +, *TPWRS Nov. 2020 4709-4722*

Hydroelectric power stations

Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*

I**Ice**

Preventive Dispatch for Transmission De-icing. *Jafarishadeh, F.*, +, *TPWRS Sept. 2020 4104-4107*

Identification

Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*

IEEE publishing

Best Papers and Outstanding Reviewers. *Hatziaargyriou, N.*, *TPWRS July 2020 2492*

IEEE standards

Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*

Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S.*, +, *TPWRS July 2020 3100-3113*

Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H.*, +, *TPWRS Sept. 2020 3682-3694*

Impedance

Performance Analysis of Skewness Methods for Asymmetry Detection in High Impedance Faults. *Ozansoy, C.*, *TPWRS Nov. 2020 4952-4955*

Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach. *Esmaili, M.*, +, *TPWRS Nov. 2020 4396-4407*

Impulse noise

Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS Sept. 2020 4124-4126*

Incentive schemes

Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*

Inductance

Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance. *Xia, Y.*, +, *TPWRS May 2020 2120-2132*

Induction motor drives

Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*

Induction motors

A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*

Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. *Varma, R.K.*, +, *TPWRS Nov. 2020 4251-4262*

Inference mechanisms

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H.*, +, *TPWRS Sept. 2020 3400-3409*

Inspection

Fraud Detection in Electric Power Distribution: An Approach That Maximizes the Economic Return. *Massaferro, P.*, +, *TPWRS Jan. 2020 703-710*

Integer programming

A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X.*, +, *TPWRS July 2020 2959-2970*

A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y.*, +, *TPWRS July 2020 2493-2505*

A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*

A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*

A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*

A Pool Strategy of Microgrid in Power Distribution Electricity Market. *Wu, Y.*, +, *TPWRS Jan. 2020 3-12*

A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators. *Popovic, Z.N.*, +, *TPWRS Sept. 2020 3895-3905*

A Systematic Formulation Tightening Approach for Unit Commitment Problems. *Yan, B.*, +, *TPWRS Jan. 2020 782-794*

A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*

A Variable Reduction Method for Large-Scale Unit Commitment. *Li, X.*, +, *TPWRS Jan. 2020 261-272*

Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y.*, +, *TPWRS July 2020 2769-2782*

Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*

Correction to "A Pool Strategy of Microgrid in Power Distribution Electricity Market" [Jan 20 3-12]. *Wu, Y.*, +, *TPWRS May 2020 2487*

Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F.*, +, *TPWRS May 2020 2190-2199*

Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F.*, +, *TPWRS July 2020 2888-2903*

Distributionally Robust Transmission Expansion Planning: A Multi-Scale Uncertainty Approach. *Velloso, A.*, +, *TPWRS Sept. 2020 3353-3365*

Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*

Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*

Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*

Joint Estimation of Operational Topology and Outages for Unbalanced Power Distribution Systems. *Gandluru, A.*, +, *TPWRS Jan. 2020 605-617*

Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVAC Power Systems. *Nguyen, Q.*, +, *TPWRS May 2020 1979-1989*

Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*

Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*

Non-Ideal Linear Operation Model for Li-Ion Batteries. *Gonzalez-Castellanos, A.J.*, +, *TPWRS Jan. 2020 672-682*

Optimal Nonparametric Prediction Intervals of Electricity Load. *Zhao, C.*, +, *TPWRS May 2020 2467-2470*

Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification. *Liu, S.*, +, *TPWRS March 2020 1653-1656*

Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*

Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*

Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M.*, +, *TPWRS Jan. 2020 584-593*

Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*

Stochastic Unit Commitment in Low-Inertia Grids. *Paturet, M.*, +, *TPWRS Sept. 2020 3448-3458*

Tight Formulation of Transition Ramping of Combined Cycle Units. *Hua, B.*, +, *TPWRS May 2020 2167-2175*

Transmission-Line Switching for Load Shed Prevention via an Accelerated Linear Programming Approximation of AC Power Flows. *Brown, W.E.*, +, *TPWRS July 2020 2575-2585*

Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*

Unit Commitment With Gas Network Awareness. *Byeon, G.*, +, *TPWRS March 2020 1327-1339*

Integral equations

An Extended Integral Unit Commitment Formulation and an Iterative Algorithm for Convex Hull Pricing. *Yu, Y.*, +, *TPWRS Nov. 2020 4335-4346*

Integration

Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R.*, +, *TPWRS March 2020 938-949*

Time Integration-Based IGD Methods for Eigen-Analysis of Large Delayed Cyber-Physical Power System. *Ye, H.*, +, *TPWRS March 2020 1376-1388*

Inventory management

Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*

Inverse problems

Inverse Equilibrium Analysis of Oligopolistic Electricity Markets. *Risanger, S.*, +, *TPWRS Nov. 2020 4159-4166*

Inverters

A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*

A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*

A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters. *Cao, D.*, +, *TPWRS Sept. 2020 4120-4123*

A Simple Control Scheme for Improving Reactive Power Sharing in Islanded Microgrid. *Gupta, Y.*, +, *TPWRS July 2020 3158-3169*

Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*

- Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. *Majumder, S.*, +, *TPWRS March 2020 1231-1241*
- Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*
- Distributed Small-Signal Stability Conditions for Inverter-Based Unbalanced Microgrids. *Nandanoori, S.P.*, +, *TPWRS Sept. 2020 3981-3990*
- Dynamic Aggregation of Grid-Tied Three-Phase Inverters. *Purba, V.*, +, *TPWRS March 2020 1520-1530*
- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*
- Evaluating the Influence of Momentary Cessation Mode in Inverter-Based Distributed Generators on Power System Transient Stability. *Shin, H.*, +, *TPWRS March 2020 1618-1626*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*
- Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. *Varma, R.K.*, +, *TPWRS Nov. 2020 4251-4262*
- New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J.*, +, *TPWRS May 2020 1967-1978*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*
- Sliding Framework for Inverter-Based Microgrid Control. *Li, Y.*, +, *TPWRS March 2020 1657-1660*
- Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W.*, +, *TPWRS July 2020 2609-2618*
- Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*
- Strength Evaluation of Multi-Infeed LCC-HVDC Systems Based on the Virtual Impedance Concept. *Xiao, H.*, +, *TPWRS July 2020 2863-2875*
- The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*

Investment

- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A Planning Model for a Hybrid AC–DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*
- A Search Space Reduction Method for Transmission Expansion Planning Using an Iterative Refinement of the DC Load Flow Model. *Ploussard, Q.*, +, *TPWRS Jan. 2020 152-162*
- Cost-Benefit Analysis of Phase Balancing Solution for Data-Scarce LV Networks by Cluster-Wise Gaussian Process Regression. *Kong, W.*, +, *TPWRS July 2020 3170-3180*
- Generation Capacity Expansion Considering Reserve Provision by Wind Power Units. *Canas-Carreton, M.*, +, *TPWRS Nov. 2020 4564-4573*
- Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*
- Incorporating Massive Scenarios in Transmission Expansion Planning With High Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS March 2020 1061-1074*
- Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets. *Chen, S.*, +, *TPWRS July 2020 2736-2747*
- Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*
- Power-Based Generation Expansion Planning for Flexibility Requirements. *Tejada-Arango, D.A.*, +, *TPWRS May 2020 2012-2023*
- Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*
- Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*

Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M.*, +, *TPWRS Jan. 2020 584-593*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

ISO standards

Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*

Iterative algorithms

- An Extended Integral Unit Commitment Formulation and an Iterative Algorithm for Convex Hull Pricing. *Yu, Y.*, +, *TPWRS Nov. 2020 4335-4346*
- Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part II: Practice. *Zhao, F.*, +, *TPWRS Nov. 2020 4888-4895*
- Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part I: Theory. *Zhao, F.*, +, *TPWRS Nov. 2020 4880-4887*
- Hidden Convexities in Decentralized Coordination for the Distribution Networks. *Srikantha, P.*, +, *TPWRS Nov. 2020 4470-4483*

Iterative methods

- A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X.*, +, *TPWRS July 2020 2959-2970*
- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A New Fully Parallel BBDF Method in Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 304-314*
- A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J.*, +, *TPWRS March 2020 986-996*
- A Planning Model for a Hybrid AC–DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*
- A Search Space Reduction Method for Transmission Expansion Planning Using an Iterative Refinement of the DC Load Flow Model. *Ploussard, Q.*, +, *TPWRS Jan. 2020 152-162*
- An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance. *Liu, L.*, +, *TPWRS July 2020 2527-2536*
- Convergence Analysis of Newton-Raphson Method in Feasible Power-Flow for DC Network. *Liu, Z.*, +, *TPWRS Sept. 2020 4100-4103*
- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*
- Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. *Zhao, M.*, +, *TPWRS May 2020 2176-2189*
- Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *Mahish, P.*, +, *TPWRS Jan. 2020 362-373*
- Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R.*, +, *TPWRS March 2020 938-949*
- Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*
- Incorporating Massive Scenarios in Transmission Expansion Planning With High Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS March 2020 1061-1074*
- Reachable Power Flow. *Zhou, Y.*, +, *TPWRS July 2020 3290-3293*
- Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*
- Security-Constrained ACOF: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X.*, +, *TPWRS May 2020 1936-1945*
- Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. *Zhang, Y.*, +, *TPWRS May 2020 2471-2474*
- Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J.*, +, *TPWRS March 2020 1340-1350*

J

Jacobian matrices

- A Greedy Algorithm for Observability Analysis. *Herrero, H.*, +, *TPWRS March 2020 1638-1641*
- Enhanced Microgrid Power Flow Incorporating Hierarchical Control. *Feng, F.*, +, *TPWRS May 2020 2463-2466*

Novel AC Distribution Factor for Efficient Outage Analysis. Yao, R., +, *TPWRS Nov. 2020 4960-4963*
 Power Flow Approach Based on the S-Iteration Process. Tostado-Veliz, M., +, *TPWRS Nov. 2020 4148-4158*

K

Kalman filters

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. Yu, S.S., +, *TPWRS July 2020 2670-2682*
 Application of Detectability Analysis for Power System Dynamic State Estimation. Zhou, N., +, *TPWRS July 2020 3274-3277*
 Blind Kalman Filtering for Short-Term Load Forecasting. Sharma, S., +, *TPWRS Nov. 2020 4916-4919*
 Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. Rimorov, D., +, *TPWRS Sept. 2020 3825-3834*
 Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs. Zhao, J., +, *TPWRS May 2020 2443-2451*
 Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. Chakhchoukh, Y., +, *TPWRS March 2020 1188-1197*
 Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. Oyvang, T., +, *TPWRS March 2020 1562-1571*
 Optimal DC Voltage and Current Control of an LCC HVDC System to Improve Real-Time Frequency Regulation in Rectifier- and Inverter-Side Grids. Kwon, D., +, *TPWRS Nov. 2020 4539-4553*
 Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. Gonzalez-Cagigal, M.A., +, *TPWRS May 2020 1796-1804*
 Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. Wang, Y., +, *TPWRS Jan. 2020 691-702*

L

Laplace equations

Automated Design of Realistic Contingencies for Big Data Generation. Bogodorova, T., +, *TPWRS Nov. 2020 4968-4971*

Large-scale systems

Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. Strezoski, L.V., +, *TPWRS March 2020 1209-1217*
 Thermal Inertial Aggregation Model for Integrated Energy Systems. Lu, S., +, *TPWRS May 2020 2374-2387*

Learning (artificial intelligence)

A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. Liu, T., +, *TPWRS Sept. 2020 4088-4099*
 A Data-Based Learning and Control Method for Long-Term Voltage Stability. Cai, H., +, *TPWRS July 2020 3203-3212*
 A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. Yuan, Y., +, *TPWRS Sept. 2020 4026-4035*
 A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. Bu, F., +, *TPWRS July 2020 3133-3144*
 A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters. Cao, D., +, *TPWRS Sept. 2020 4120-4123*
 Adversarial Feature Learning of Online Monitoring Data for Operational Risk Assessment in Distribution Networks. Shi, X., +, *TPWRS March 2020 975-985*
 An Adaptive Bilevel Programming Model for Nonparametric Prediction Intervals of Wind Power Generation. Zhao, C., +, *TPWRS Jan. 2020 424-439*
 An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. Zhang, Z., +, *TPWRS May 2020 1856-1867*
 Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. Wan, C., +, *TPWRS Sept. 2020 3869-3884*

Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis. Ryu, S., +, *TPWRS March 2020 1048-1060*
 Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. Duan, J., +, *TPWRS Jan. 2020 814-817*
 Feature-Driven Improvement of Renewable Energy Forecasting and Trading. Munoz, M.A., +, *TPWRS Sept. 2020 3753-3763*
 Fraud Detection in Electric Power Distribution: An Approach That Maximizes the Economic Return. Massafiero, P., +, *TPWRS Jan. 2020 703-710*
 Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. Zhu, L., +, *TPWRS May 2020 2399-2411*
 Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. Buzau, M., +, *TPWRS March 2020 1254-1263*
 Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. Cao, Z., +, *TPWRS May 2020 1881-1897*
 Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. Kong, X., +, *TPWRS March 2020 1531-1538*
 Optimal Nonparametric Prediction Intervals of Electricity Load. Zhao, C., +, *TPWRS May 2020 2467-2470*
 Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. Xu, H., +, *TPWRS May 2020 1990-2001*
 Real-Time Optimal Power Flow: A Lagrangian Based Deep Reinforcement Learning Approach. Yan, Z., +, *TPWRS July 2020 3270-3273*
 Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. Shang, Y., +, *TPWRS Sept. 2020 3940-3952*
 Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. Deka, D., +, *TPWRS May 2020 1663-1673*
 Transfer Learning-Based Power System Online Dynamic Security Assessment: Using One Model to Assess Many Unlearned Faults. Ren, C., +, *TPWRS Jan. 2020 821-824*
 Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning. Tan, M., +, *TPWRS July 2020 2937-2948*
 Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. Sun, M., +, *TPWRS Jan. 2020 188-201*
 Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. Bottieau, J., +, *TPWRS March 2020 1218-1230*

Least squares approximations

Enhanced Modelling Framework for Equivalent Circuit-Based Power System State Estimation. Jovicic, A., +, *TPWRS Sept. 2020 3790-3799*
 Improving Power System State Estimation Based on Matrix-Level Cleaning. Yang, H., +, *TPWRS Sept. 2020 3529-3540*
 Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing. Dobbe, R., +, *TPWRS May 2020 1674-1683*
 Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach. Tan, Y., +, *TPWRS May 2020 2475-2478*
 Maximum Marginal Likelihood Estimation of Phase Connections in Power Distribution Systems. Wang, W., +, *TPWRS Sept. 2020 3906-3917*
 Measurement-Based Optimal DER Dispatch With a Recursively Estimated Sensitivity Model. Nowak, S., +, *TPWRS Nov. 2020 4792-4802*
 State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. Chitsazan, M.A., +, *TPWRS Jan. 2020 238-248*
 The Effects of Forced Oscillation Frequency Estimation Error on the LS-ARMA+S Mode Meter. Dosiek, L., *TPWRS March 2020 1650-1652*
 Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. Zhang, Y., +, *TPWRS May 2020 2471-2474*

Legendre polynomials

Explicit MPC Based on the Galerkin Method for AGC Considering Volatile Generations. Qiu, Y., +, *TPWRS Jan. 2020 462-473*

Linear matrix inequalities

A Robust H_∞ Multivariable Stabilizer Design for Droop Based Autonomous AC Microgrid. Sharma, R.K., +, *TPWRS Nov. 2020 4369-4382*
 Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. Sadabadi, M.S., +, *TPWRS Jan. 2020 508-515*
 Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. Luo, H., +, *TPWRS Sept. 2020 3603-3615*

Linear programming

- A Bienstock–Zuckerberg-Based Algorithm for Solving a Network-Flow Formulation of the Convex Hull Pricing Problem. *Alvarez, C.*, +, *TPWRS May 2020 2108-2119*
- A Fast LP-Based Approach for Robust Dynamic Economic Dispatch Problem: A Feasible Region Projection Method. *Liu, Y.*, +, *TPWRS Sept. 2020 4116-4119*
- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*
- A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X.*, +, *TPWRS March 2020 1364-1375*
- A Linear Programming Approximation of Distributionally Robust Chance-Constrained Dispatch With Wasserstein Distance. *Zhou, A.*, +, *TPWRS Sept. 2020 3366-3377*
- A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*
- A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators. *Popovic, Z.N.*, +, *TPWRS Sept. 2020 3895-3905*
- A Systematic Formulation Tightening Approach for Unit Commitment Problems. *Yan, B.*, +, *TPWRS Jan. 2020 782-794*
- A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*
- A Variable Reduction Method for Large-Scale Unit Commitment. *Li, X.*, +, *TPWRS Jan. 2020 261-272*
- Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*
- Data-Driven Distributionally Robust Unit Commitment With Wasserstein Metric: Tractable Formulation and Efficient Solution Method. *Zheng, X.*, +, *TPWRS Nov. 2020 4940-4943*
- Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*
- Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F.*, +, *TPWRS July 2020 2888-2903*
- Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*
- Distributionally Robust Transmission Expansion Planning: A Multi-Scale Uncertainty Approach. *Velloso, A.*, +, *TPWRS Sept. 2020 3353-3365*
- Fast Screen of Redundant Transmission Constraints in Line Contingency-Constrained Dispatch. *Guo, Z.*, +, *TPWRS July 2020 3305-3307*
- Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*
- From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. *Pan, K.*, +, *TPWRS March 2020 1584-1596*
- Incorporating Massive Scenarios in Transmission Expansion Planning With High Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS March 2020 1061-1074*
- Inverse Equilibrium Analysis of Oligopolistic Electricity Markets. *Risanger, S.*, +, *TPWRS Nov. 2020 4159-4166*
- Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*
- Non-Ideal Linear Operation Model for Li-Ion Batteries. *Gonzalez-Castellanos, A.J.*, +, *TPWRS Jan. 2020 672-682*

- Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification. *Liu, S.*, +, *TPWRS March 2020 1653-1656*
- Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*
- Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*
- Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*
- Stochastic Unit Commitment in Low-Inertia Grids. *Paturet, M.*, +, *TPWRS Sept. 2020 3448-3458*

Linear quadratic control

- Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S.*, +, *TPWRS July 2020 3100-3113*

Linear systems

- Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems. *Hao, Y.*, +, *TPWRS March 2020 1166-1177*
- Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H.*, +, *TPWRS Sept. 2020 3603-3615*

Linearization techniques

- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*
- A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*
- Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach. *Tan, Y.*, +, *TPWRS May 2020 2475-2478*
- Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M.*, +, *TPWRS Jan. 2020 584-593*

Lithium compounds

- Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*
- Non-Ideal Linear Operation Model for Li-Ion Batteries. *Gonzalez-Castellanos, A.J.*, +, *TPWRS Jan. 2020 672-682*

Load (electric)

- Coalitional Game-Based Transactive Energy Management in Local Energy Communities. *Feng, C.*, +, *TPWRS May 2020 1729-1740*
- Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*
- Online Periodic Coordination of Multiple Pulsed Loads on All-Electric Ships. *Xie, R.*, +, *TPWRS July 2020 2658-2669*
- Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*
- Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. *Roca, I.L.*, +, *TPWRS Jan. 2020 284-292*
- Transmission Expansion Planning Test System for AC/DC Hybrid Grid With High Variable Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS July 2020 2597-2608*

Load dispatching

- Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVac Power Systems. *Nguyen, Q.*, +, *TPWRS May 2020 1979-1989*

Load flow

- hynet*: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems. *Hotz, M.*, +, *TPWRS March 2020 1036-1047*
- A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. *Liu, T.*, +, *TPWRS Sept. 2020 4088-4099*
- A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X.*, +, *TPWRS July 2020 2959-2970*
- A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function. *Ju, Y.*, +, *TPWRS Nov. 2020 4896-4903*
- A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids. *Pompodakis, E.E.*, +, *TPWRS March 2020 1143-1155*
- A Computational Attractive Interval Power Flow Approach With Correlated Uncertain Power Injections. *Liu, B.*, +, *TPWRS Jan. 2020 825-828*

- A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*
- A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X.*, +, *TPWRS March 2020 1364-1375*
- A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*
- A Novel Decomposition Solution Approach for the Restoration Problem in Distribution Networks. *Sekhvatmanesh, H.*, +, *TPWRS Sept. 2020 3810-3824*
- A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*
- A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*
- A Search Space Reduction Method for Transmission Expansion Planning Using an Iterative Refinement of the DC Load Flow Model. *Ploussard, Q.*, +, *TPWRS Jan. 2020 152-162*
- A Topological Sorting Approach to Identify Coherent Cut-Sets Within Power Grids. *Beiranvand, A.*, +, *TPWRS Jan. 2020 721-730*
- A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*
- Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X.*, +, *TPWRS May 2020 2047-2058*
- An Endogenous Approach to Quantifying the Wind Power Reserve. *Huang, H.*, +, *TPWRS May 2020 2431-2442*
- An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. *Zhang, Z.*, +, *TPWRS May 2020 1856-1867*
- Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*
- Correction to "Convex Relaxations of Probabilistic AC Optimal Power Flow for Interconnected AC and HVDC Grids" [Jul 19 2706-2718]. *Venzke, A.*, +, *TPWRS Sept. 2020 4143*
- Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H.*, +, *TPWRS May 2020 2133-2143*
- Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*
- Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*
- Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. *Zhao, M.*, +, *TPWRS May 2020 2176-2189*
- Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*
- Distributed Stability Conditions for Power Systems With Heterogeneous Nonlinear Bus Dynamics. *Yang, P.*, +, *TPWRS May 2020 2313-2324*
- Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*
- Dynamic Aggregation of Grid-Tied Three-Phase Inverters. *Purba, V.*, +, *TPWRS March 2020 1520-1530*
- Enhanced Microgrid Power Flow Incorporating Hierarchical Control. *Feng, F.*, +, *TPWRS May 2020 2463-2466*
- Estimation of Voltage Dependent Load Models Through Power and Frequency Measurements. *Ortega, A.*, +, *TPWRS July 2020 3308-3311*
- Fast Cascading Outage Screening Based on Deep Convolutional Neural Network and Depth-First Search. *Du, Y.*, +, *TPWRS July 2020 2704-2715*
- Fast Cumulant Method for Probabilistic Power Flow Considering the Non-linear Relationship of Wind Power Generation. *Lin, C.*, +, *TPWRS July 2020 2537-2548*
- Fast Security-Constrained Optimal Power Flow Through Low-Impact and Redundancy Screening. *Weinhold, R.*, +, *TPWRS Nov. 2020 4574-4584*
- Feasible Path Identification in Optimal Power Flow With Sequential Convex Restriction. *Lee, D.*, +, *TPWRS Sept. 2020 3648-3659*
- Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems. *Bizzarri, F.*, +, *TPWRS March 2020 1284-1293*
- Group-Based Line Switching for Enhancing Contingency-Constrained Static Voltage Stability. *Wang, L.*, +, *TPWRS March 2020 1489-1498*
- Impact of High Renewable Penetration on the Power System Operation Mode: A Data-Driven Approach. *Hou, Q.*, +, *TPWRS Jan. 2020 731-741*
- Implicit Z_{bus} Gauss Algorithm Revisited. *Feng, F.*, +, *TPWRS Sept. 2020 4108-4111*
- Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*
- Kriging Assisted Surrogate Evolutionary Computation to Solve Optimal Power Flow Problems. *Deng, Z.*, +, *TPWRS March 2020 831-839*
- Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing. *Dobbe, R.*, +, *TPWRS May 2020 1674-1683*
- Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach. *Tan, Y.*, +, *TPWRS May 2020 2475-2478*
- Load Flow-Based Method for Nontechnical Electrical Loss Detection and Location in Distribution Systems Using Smart Meters. *Ferreira, T.S.D.*, +, *TPWRS Sept. 2020 3671-3681*
- Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVac Power Systems. *Nguyen, Q.*, +, *TPWRS May 2020 1979-1989*
- Lossy DistFlow Formulation for Single and Multiphase Radial Feeders. *Schweitzer, E.*, +, *TPWRS May 2020 1758-1768*
- Maximum Marginal Likelihood Estimation of Phase Connections in Power Distribution Systems. *Wang, W.*, +, *TPWRS Sept. 2020 3906-3917*
- Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. *Ponocko, J.*, +, *TPWRS May 2020 1822-1833*
- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*
- Novel AC Distribution Factor for Efficient Outage Analysis. *Yao, R.*, +, *TPWRS Nov. 2020 4960-4963*
- OATS: Optimisation and Analysis Toolbox for Power Systems. *Bukhsh, W.*, +, *TPWRS Sept. 2020 3552-3561*
- On the Holomorphic and Conjugate Properties for Holomorphic Embedding Methods for Solving Power Flow Equations. *Wang, T.*, +, *TPWRS July 2020 2506-2515*
- Optimal Distributed Feedback Voltage Control Under Limited Reactive Power. *Qu, G.*, +, *TPWRS Jan. 2020 315-331*
- Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S.*, +, *TPWRS Jan. 2020 98-108*
- Optimal Power Flow Models With Probabilistic Guarantees: A Boolean Approach. *Lejeune, M.A.*, +, *TPWRS Nov. 2020 4932-4935*
- Optimal Reconfiguration of DC Networks. *Altun, T.*, +, *TPWRS Nov. 2020 4272-4284*
- Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*
- Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters. *Hao, F.*, +, *TPWRS July 2020 2726-2735*
- Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach. *Mak, T.W.K.*, +, *TPWRS March 2020 1627-1637*
- Probabilistic Power Flow Based on a Gaussian Process Emulator. *Xu, Y.*, +, *TPWRS July 2020 3278-3281*
- Reachable Power Flow. *Zhou, Y.*, +, *TPWRS July 2020 3290-3293*
- Real-Time Optimal Power Flow: A Lagrangian Based Deep Reinforcement Learning Approach. *Yan, Z.*, +, *TPWRS July 2020 3270-3273*
- Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*
- Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TPWRS Nov. 2020 4836-4846*
- The Influence of Network Factors on Frequency Stability. *Fradley, J.*, +, *TPWRS July 2020 2826-2834*
- Time-Process Power Flow Calculation Considering Thermal Behavior of Transmission Components. *Zhou, S.*, +, *TPWRS Nov. 2020 4232-4250*

Transmission-Line Switching for Load Shed Prevention via an Accelerated Linear Programming Approximation of AC Power Flows. *Brown, W.E., +, TPWRS July 2020 2575-2585*

Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J., +, TPWRS March 2020 1340-1350*

Uncertainty Analysis Using Fuzzy Transformation Method: An Application in Power-Flow Studies. *Aghili, S.J., +, TPWRS Jan. 2020 42-52*

Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H., +, TPWRS July 2020 3065-3077*

Load flow analysis

Power Flow Approach Based on the S-Iteration Process. *Tostado-Veliz, M., +, TPWRS Nov. 2020 4148-4158*

Load flow control

A New Synchronous DG Model for Unbalanced Multiphase Power Flow Studies. *Beneteli, T.A.P., +, TPWRS Jan. 2020 803-813*

A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z., +, TPWRS Sept. 2020 3800-3809*

Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F., +, TPWRS Jan. 2020 385-394*

Correction to "Convex Relaxations of Chance Constrained AC Optimal Power Flow" [May 18 2829-2841]. *Venzke, A., +, TPWRS Sept. 2020 4142*

Distributionally Robust CVaR Constraints for Power Flow Optimization. *Jabr, R.A., TPWRS Sept. 2020 3764-3773*

Security-Constrained ACOFP: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X., +, TPWRS May 2020 1936-1945*

State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. *Chitsazan, M.A., +, TPWRS Jan. 2020 238-248*

Load forecasting

A Novel Method for Hourly Electricity Demand Forecasting. *Zhang, G., +, TPWRS March 2020 1351-1363*

An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance. *Liu, L., +, TPWRS July 2020 2527-2536*

Blind Kalman Filtering for Short-Term Load Forecasting. *Sharma, S., +, TPWRS Nov. 2020 4916-4919*

Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L., +, TPWRS March 2020 1646-1649*

Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S., +, TPWRS March 2020 1132-1142*

Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A., +, TPWRS Sept. 2020 3753-3763*

Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T., +, TPWRS Sept. 2020 3494-3505*

Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z., +, TPWRS May 2020 1881-1897*

Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X., +, TPWRS March 2020 1531-1538*

Improved Deep Mixture Density Network for Regional Wind Power Probabilistic Forecasting. *Zhang, H., +, TPWRS July 2020 2549-2560*

Joint Estimation of Operational Topology and Outages for Unbalanced Power Distribution Systems. *Gandluru, A., +, TPWRS Jan. 2020 605-617*

Multivariate Quantile Regression for Short-Term Probabilistic Load Forecasting. *Bracale, A., +, TPWRS Jan. 2020 628-638*

On The Computation of The Locally Closest Bifurcation Point Considering Loading Uncertainties and Reactive Power Limits. *Neves, L.S., +, TPWRS Sept. 2020 3885-3894*

Optimal Nonparametric Prediction Intervals of Electricity Load. *Zhao, C., +, TPWRS May 2020 2467-2470*

The Use of Extreme Value Theory for Forecasting Long-Term Substation Maximum Electricity Demand. *Li, Y., +, TPWRS Jan. 2020 128-139*

Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning. *Tan, M., +, TPWRS July 2020 2937-2948*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M., +, TPWRS Jan. 2020 188-201*

Load management

Modeling the Aggregated Response of Variable Frequency Drives (VFDs) for Power System Dynamic Studies. *Mitra, P., +, TPWRS July 2020 2631-2641*

Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. *Chen, K., +, TPWRS May 2020 2362-2373*

Load modeling

A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning. *Wang, S., +, TPWRS Nov. 2020 4644-4654*

A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. *Xu, Y., +, TPWRS Nov. 2020 4756-4768*

A Multi-Agent Deep Reinforcement Learning Method for Cooperative Load Frequency Control of a Multi-Area Power System. *Yan, Z., +, TPWRS Nov. 2020 4599-4608*

A Robust Dynamic State Estimation Approach Against Model Errors Caused by Load Changes. *Wang, S., +, TPWRS Nov. 2020 4518-4527*

Analytical Reliability Evaluation of Active Distribution Systems Considering Information Link Failures. *Liu, W., +, TPWRS Nov. 2020 4167-4179*

Blind Kalman Filtering for Short-Term Load Forecasting. *Sharma, S., +, TPWRS Nov. 2020 4916-4919*

Estimating the Robust P-Q Capability of a Technical Virtual Power Plant Under Uncertainties. *Tan, Z., +, TPWRS Nov. 2020 4285-4296*

Hidden Convexities in Decentralized Coordination for the Distribution Networks. *Srikantha, P., +, TPWRS Nov. 2020 4470-4483*

Measuring Systemic Risk of Switching Attacks Based on Cybersecurity Technologies in Substations. *Yamashita, K., +, TPWRS Nov. 2020 4206-4219*

Reexamining the Distributed Slack Bus. *Dhople, S.V., +, TPWRS Nov. 2020 4870-4879*

Tri-Level Mixed-Integer Optimization for Two-Stage Microgrid Dispatch With Multi-Uncertainties. *Qiu, H., +, TPWRS Sept. 2020 3636-3647*

Load regulation

A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources. *Espinosa, L.A.D., +, TPWRS Sept. 2020 3660-3670*

Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C., +, TPWRS March 2020 950-961*

Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F., +, TPWRS May 2020 2024-2036*

Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L., +, TPWRS March 2020 1646-1649*

Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A., +, TPWRS May 2020 2037-2046*

On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K., +, TPWRS March 2020 840-853*

Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H., +, TPWRS Sept. 2020 3603-3615*

Load shedding

A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B., +, TPWRS March 2020 873-886*

A Scheme to Mitigate Generation Trip Events by Ancillary Services Considering Minimal Actions of UFLS. *Lai, C., +, TPWRS Nov. 2020 4815-4823*

Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C., +, TPWRS March 2020 950-961*

Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P., +, TPWRS Sept. 2020 4014-4025*

Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F., +, TPWRS May 2020 2190-2199*

Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S., +, TPWRS Sept. 2020 3332-3341*

Impact of Synchrophasor Estimation Algorithms in ROCOF-Based Under-Frequency Load-Shedding. *Zuo, Y.*, +, *TPWRS March 2020 1305-1316*

OATS: Optimisation and Analysis Toolbox for Power Systems. *Bukhsh, W.*, +, *TPWRS Sept. 2020 3552-3561*

Optimal Reconfiguration of DC Networks. *Altun, T.*, +, *TPWRS Nov. 2020 4272-4284*

Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*

Reliability Evaluation for Integrated Power-Gas Systems With Power-to-Gas and Gas Storages. *Zeng, Z.*, +, *TPWRS Jan. 2020 571-583*

Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H.*, +, *TPWRS Sept. 2020 3682-3694*

Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*

Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*

Security-Constrained ACOFP: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X.*, +, *TPWRS May 2020 1936-1945*

Transmission-Line Switching for Load Shed Prevention via an Accelerated Linear Programming Approximation of AC Power Flows. *Brown, W.E.*, +, *TPWRS July 2020 2575-2585*

Long short term memory

A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. *Azman, S.K.*, +, *TPWRS Nov. 2020 4585-4598*

Losses

Load Flow-Based Method for Nontechnical Electrical Loss Detection and Location in Distribution Systems Using Smart Meters. *Ferreira, T.S.D.*, +, *TPWRS Sept. 2020 3671-3681*

Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVac Power Systems. *Nguyen, Q.*, +, *TPWRS May 2020 1979-1989*

Market Integration of HVDC Lines: Internalizing HVDC Losses in Market Clearing. *Tosatto, A.*, +, *TPWRS Jan. 2020 451-461*

Power System Loss Divider. *Al-Digs, A.*, +, *TPWRS July 2020 3286-3289*

Low-pass filters

On the Reduction of the Rated Power of Energy Storage System in Wind Farms. *Koiwa, K.*, +, *TPWRS July 2020 2586-2596*

Lyapunov methods

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*

Economic-Driven Frequency Regulation in Multi-Terminal HVDC Systems: A Cooperative Distributed Approach. *Jia, Y.*, +, *TPWRS May 2020 2245-2255*

Individual Functions Method for Power System Transient Stability Assessment. *Al Araifi, S.M.*, +, *TPWRS March 2020 1264-1273*

New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M.*, +, *TPWRS Jan. 2020 527-538*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q.*, +, *TPWRS Sept. 2020 3847-3856*

Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H.*, +, *TPWRS Sept. 2020 3603-3615*

M

Machine control

A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*

A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*

A New Synchronous DG Model for Unbalanced Multiphase Power Flow Studies. *Beneteli, T.A.P.*, +, *TPWRS Jan. 2020 803-813*

An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*

Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R.*, +, *TPWRS March 2020 938-949*

Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*

New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M.*, +, *TPWRS Jan. 2020 527-538*

Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A.*, +, *TPWRS May 2020 1796-1804*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. *Jin, Y.*, +, *TPWRS May 2020 1769-1782*

Machine learning

Automated Design of Realistic Contingencies for Big Data Generation. *Bogodorova, T.*, +, *TPWRS Nov. 2020 4968-4971*

Closure to Discussion on "Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach". *Wang, Y.*, +, *TPWRS Sept. 2020 4141*

Discussion on "Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach". *Doshi, N.P.*, *TPWRS Sept. 2020 4140*

Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*

Machine vector control

Coherency Identification for Wind-Integrated Power System Using Virtual Synchronous Motion Equation. *Liu, J.*, +, *TPWRS July 2020 2619-2630*

Magnetometers

A GIC Estimator for Electric Grid Monitoring During Geomagnetic Disturbances. *Klauber, C.*, +, *TPWRS Nov. 2020 4847-4855*

Maintenance engineering

Assessment of Spare Parts for System Components Using a Markov Model. *Hamoud, G.A.*, +, *TPWRS July 2020 3114-3121*

Low-Carbon Electricity Network Transition Considering Retirement of Aging Coal Generators. *Shen, W.*, +, *TPWRS Nov. 2020 4193-4205*

Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*

Marine power systems

Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*

Online Periodic Coordination of Multiple Pulsed Loads on All-Electric Ships. *Xie, R.*, +, *TPWRS July 2020 2658-2669*

Markov processes

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*

A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning. *Wang, S.*, +, *TPWRS Nov. 2020 4644-4654*

A Markovian Influence Graph Formed From Utility Line Outage Data to Mitigate Large Cascades. *Zhou, K.*, +, *TPWRS July 2020 3224-3235*

Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G.*, +, *TPWRS May 2020 2339-2350*

An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. *Zhang, Z.*, +, *TPWRS May 2020 1856-1867*

Assessment of Spare Parts for System Components Using a Markov Model. *Hamoud, G.A.*, +, *TPWRS July 2020 3114-3121*

Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*

Stochastic and Distributionally Robust Load Ensemble Control. *Hassan, A.*, +, *TPWRS Nov. 2020 4678-4688*

Master-slave

Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TPWRS Nov. 2020 4836-4846*

Mathematical analysis

A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*

Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*

Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*

Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*

Three-Dimensional Representation of Electrical Circuit Quantities. *Bran-dao, D.I.*, +, *TPWRS July 2020 3258-3261*

Mathematical model

A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function. *Ju, Y.*, +, *TPWRS Nov. 2020 4896-4903*

A Clustering-Based Approach for Estimation of Low Frequency Oscillations in Power Systems. *Pande, P.W.*, +, *TPWRS Nov. 2020 4666-4677*

A Novel Probabilistic Method for Energy Loss Estimation Using Minimal Line Current Information. *Wu, H.*, +, *TPWRS Nov. 2020 4928-4931*

A Robust Dynamic State Estimation Approach Against Model Errors Caused by Load Changes. *Wang, S.*, +, *TPWRS Nov. 2020 4518-4527*

A Strategy for Forced Oscillation Suppression. *Trudnowski, D.J.*, +, *TPWRS Nov. 2020 4699-4708*

An Efficient Method for Computing Exact Delay-Margins of Large-Scale Power Systems. *Li, C.*, +, *TPWRS Nov. 2020 4924-4927*

Estimating the Robust P-Q Capability of a Technical Virtual Power Plant Under Uncertainties. *Tan, Z.*, +, *TPWRS Nov. 2020 4285-4296*

Hidden Convexities in Decentralized Coordination for the Distribution Networks. *Srikantha, P.*, +, *TPWRS Nov. 2020 4470-4483*

Local Frequency-Based Estimation of the Rate of Change of Frequency of the Center of Inertia. *Azizi, S.*, +, *TPWRS Nov. 2020 4948-4951*

Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS Nov. 2020 4944-4947*

Novel AC Distribution Factor for Efficient Outage Analysis. *Yao, R.*, +, *TPWRS Nov. 2020 4960-4963*

On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning. *Arroyo, J.M.*, +, *TPWRS Nov. 2020 4964-4967*

Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View. *Golpira, H.*, +, *TPWRS Nov. 2020 4824-4835*

Participation of Pumped Hydro Storage in Energy and Performance-Based Regulation Markets. *Alharbi, H.*, +, *TPWRS Nov. 2020 4307-4323*

Reachable Eigenanalysis. *Zhou, Y.*, +, *TPWRS Nov. 2020 4936-4939*

Reexamining the Distributed Slack Bus. *Dhople, S.V.*, +, *TPWRS Nov. 2020 4870-4879*

Stochastic Online Generation Control of Cascaded Run-of-the-River Hydro-power for Mitigating Solar Power Volatility. *Qiu, Y.*, +, *TPWRS Nov. 2020 4709-4722*

Time-Process Power Flow Calculation Considering Thermal Behavior of Transmission Components. *Zhou, S.*, +, *TPWRS Nov. 2020 4232-4250*

Matlab

A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*

Communication-Free Current Sharing Control Strategy for DC Microgrids and Its Application for AC/DC Hybrid Microgrids. *Kirakosyan, A.*, +, *TPWRS Jan. 2020 140-151*

Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*

Matrix algebra

Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*

Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*

Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*

Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*

Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*

Lossy DistFlow Formulation for Single and Multiphase Radial Feeders. *Schweitzer, E.*, +, *TPWRS May 2020 1758-1768*

New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J.*, +, *TPWRS May 2020 1967-1978*

Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 539-550*

Time Integration-Based IGD Methods for Eigen-Analysis of Large Delayed Cyber-Physical Power System. *Ye, H.*, +, *TPWRS March 2020 1376-1388*

Matrix decomposition

A Greedy Algorithm for Observability Analysis. *Herrero, H.*, +, *TPWRS March 2020 1638-1641*

A New Fully Parallel BBDF Method in Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 304-314*

A Statistical Approach to Guide Phase Swapping for Data-Scarce Low Voltage Networks. *Fang, L.*, +, *TPWRS Jan. 2020 751-761*

External System Generator Outage Localization Based on Tie-Line Synchrophasor Measurements. *Dai, Z.*, +, *TPWRS March 2020 1597-1605*

PMU Missing Data Recovery Using Tensor Decomposition. *Osipov, D.*, +, *TPWRS Nov. 2020 4554-4563*

Maximum likelihood estimation

A Real Time Event Detection, Classification and Localization Using Synchrophasor Data. *Pandey, S.*, +, *TPWRS Nov. 2020 4421-4431*

Maximum Marginal Likelihood Estimation of Phase Connections in Power Distribution Systems. *Wang, W.*, +, *TPWRS Sept. 2020 3906-3917*

Maximum power point trackers

Generation Capacity Expansion Considering Reserve Provision by Wind Power Units. *Canas-Carreton, M.*, +, *TPWRS Nov. 2020 4564-4573*

Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*

Measurement errors

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*

Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T.*, +, *TPWRS March 2020 920-928*

Message passing

Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 539-550*

Microgrids

A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function. *Ju, Y.*, +, *TPWRS Nov. 2020 4896-4903*

A Robust H_∞ Multivariable Stabilizer Design for Droop Based Autonomous AC Microgrid. *Sharma, R.K.*, +, *TPWRS Nov. 2020 4369-4382*

Closure to Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Khayat, Y.*, +, *TPWRS Nov. 2020 4973*

Closure to Discussion on "Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids". *Lee, J.*, +, *TPWRS Sept. 2020 4139*

Correction to "A Pool Strategy of Microgrid in Power Distribution Electricity Market" [Jan 20 3-12]. *Wu, Y.*, +, *TPWRS May 2020 2487*

Design of Resonance Damper for Wind Energy Conversion System Providing Frequency Support Service to Low Inertia Power Systems. *Manaz, M.A.M.*, +, *TPWRS Nov. 2020 4297-4306*

Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Alshehri, J.*, +, *TPWRS Nov. 2020 4972*

Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids”. *Khalid, M., TPWRS Sept. 2020 4138*

Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. *Xu, D., +, TPWRS Nov. 2020 4769-4780*

Reachable Eigenanalysis. *Zhou, Y., +, TPWRS Nov. 2020 4936-4939*

MIMO systems

New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J., +, TPWRS May 2020 1967-1978*

Minimization

A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J., +, TPWRS March 2020 986-996*

Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. *Zhao, M., +, TPWRS May 2020 2176-2189*

Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y., +, TPWRS May 2020 2155-2166*

Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVac Power Systems. *Nguyen, Q., +, TPWRS May 2020 1979-1989*

On the Minimization of Uplift Payments for Multi-Period Dispatch. *Yang, Z., +, TPWRS May 2020 2479-2482*

Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N., +, TPWRS July 2020 2683-2692*

Security-Constrained ACOFF: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X., +, TPWRS May 2020 1936-1945*

Mixture models

Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T., +, TPWRS March 2020 920-928*

Modal analysis

A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. *Ugwuanyi, N.S., +, TPWRS July 2020 3247-3257*

Exhaustive Modal Analysis of Large-Scale Interconnected Power Systems With High Power Electronics Penetration. *Kouki, M., +, TPWRS July 2020 2759-2768*

Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C., TPWRS Sept. 2020 3918-3926*

Monitoring

A GIC Estimator for Electric Grid Monitoring During Geomagnetic Disturbances. *Klauber, C., +, TPWRS Nov. 2020 4847-4855*

Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. *Chen, K., +, TPWRS May 2020 2362-2373*

Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption. *Chatterjee, K., +, TPWRS Nov. 2020 4723-4733*

Monte Carlo methods

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y., +, TPWRS March 2020 1109-1119*

Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z., +, TPWRS March 2020 1457-1467*

Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes. *Lagos, T., +, TPWRS March 2020 1411-1421*

Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems. *Zhang, Y., +, TPWRS Jan. 2020 762-772*

Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G., +, TPWRS Jan. 2020 618-627*

Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B., +, TPWRS March 2020 929-937*

On the Initialization of Transient Stability Models of Power Systems With the Inclusion of Stochastic Processes. *Jonsdottir, G.M., +, TPWRS Sept. 2020 4112-4115*

Probabilistic Modeling for Optimization of Resource Mix With Variable Generation and Storage. *Gao, W., +, TPWRS Sept. 2020 4036-4045*

Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y., +, TPWRS Jan. 2020 551-559*

Reachable Eigenanalysis. *Zhou, Y., +, TPWRS Nov. 2020 4936-4939*

Reliability Evaluation for Integrated Power-Gas Systems With Power-to-Gas and Gas Storages. *Zeng, Z., +, TPWRS Jan. 2020 571-583*

Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H., +, TPWRS Sept. 2020 3682-3694*

Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N., +, TPWRS March 2020 1242-1253*

Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W., +, TPWRS July 2020 2609-2618*

Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes. *Shim, J.W., +, TPWRS Nov. 2020 4655-4665*

Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y., +, TPWRS Sept. 2020 3940-3952*

Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. *Zhang, Y., +, TPWRS May 2020 2471-2474*

Uncertainty Analysis Using Fuzzy Transformation Method: An Application in Power-Flow Studies. *Aghili, S.J., +, TPWRS Jan. 2020 42-52*

Multi-agent systems

A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning. *Wang, S., +, TPWRS Nov. 2020 4644-4654*

A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters. *Cao, D., +, TPWRS Sept. 2020 4120-4123*

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z., +, TPWRS Sept. 2020 3320-3331*

Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J., +, TPWRS Jan. 2020 814-817*

Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T., +, TPWRS Sept. 2020 3729-3738*

Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A., +, TPWRS March 2020 1023-1035*

Multidimensional systems

Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems. *Hao, Y., +, TPWRS March 2020 1166-1177*

Multilayer perceptrons

Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. *Buzau, M., +, TPWRS March 2020 1254-1263*

Multiphase flow

A New Synchronous DG Model for Unbalanced Multiphase Power Flow Studies. *Beneteli, T.A.P., +, TPWRS Jan. 2020 803-813*

N

Nash equilibrium

Agent-Based Modeling in Electricity Market Using Deep Deterministic Policy Gradient Algorithm. *Liang, Y., +, TPWRS Nov. 2020 4180-4192*

Natural gas technology

Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. *Chen, S., +, TPWRS May 2020 1956-1966*

Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. *Chen, S., +, TPWRS Jan. 2020 662-671*

Reliability Evaluation for Integrated Power-Gas Systems With Power-to-Gas and Gas Storages. *Zeng, Z., +, TPWRS Jan. 2020 571-583*

Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H., +, TPWRS Sept. 2020 3682-3694*

The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C., +, TPWRS Jan. 2020 119-127*

Unit Commitment With Gas Network Awareness. *Byeon, G., +, TPWRS March 2020 1327-1339*

Network theory (graphs)

Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F., +, TPWRS Jan. 2020 30-41*

Network topology

A Novel Decomposition Solution Approach for the Restoration Problem in Distribution Networks. *Sekhvatmanesh, H.*, +, *TPWRS Sept. 2020 3810-3824*

Optimal Reconfiguration of DC Networks. *Altun, T.*, +, *TPWRS Nov. 2020 4272-4284*

Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. *Zhou, N.*, +, *TPWRS March 2020 1479-1488*

Neural networks

A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. *Liu, T.*, +, *TPWRS Sept. 2020 4088-4099*

A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*

A Data-Based Learning and Control Method for Long-Term Voltage Stability. *Cai, H.*, +, *TPWRS July 2020 3203-3212*

A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning. *Wang, S.*, +, *TPWRS Nov. 2020 4644-4654*

Adversarial Feature Learning of Online Monitoring Data for Operational Risk Assessment in Distribution Networks. *Shi, X.*, +, *TPWRS March 2020 975-985*

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H.*, +, *TPWRS Sept. 2020 3400-3409*

Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*

Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*

Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*

Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*

Improved Deep Mixture Density Network for Regional Wind Power Probabilistic Forecasting. *Zhang, H.*, +, *TPWRS July 2020 2549-2560*

Physics-Aware Neural Networks for Distribution System State Estimation. *Zamzam, A.S.*, +, *TPWRS Nov. 2020 4347-4356*

Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. *Chen, K.*, +, *TPWRS May 2020 2362-2373*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. *Bottieau, J.*, +, *TPWRS March 2020 1218-1230*

Neurocontrollers

Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*

Newton method

A Dynamic Theory-Based Method for Computing Unstable Equilibrium Points of Power Systems. *Owusu-Mireku, R.*, +, *TPWRS May 2020 1946-1955*

A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J.*, +, *TPWRS March 2020 986-996*

Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y.*, +, *TPWRS July 2020 2769-2782*

Power Flow Approach Based on the S-Iteration Process. *Tostado-Veliz, M.*, +, *TPWRS Nov. 2020 4148-4158*

Newton-Raphson method

Convergence Analysis of Newton-Raphson Method in Feasible Power-Flow for DC Network. *Liu, Z.*, +, *TPWRS Sept. 2020 4100-4103*

Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R.*, +, *TPWRS March 2020 938-949*

Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters. *Hao, F.*, +, *TPWRS July 2020 2726-2735*

Solving Power System Differential Algebraic Equations Using Differential Transformation. *Liu, Y.*, +, *TPWRS May 2020 2289-2299*

Noise measurement

Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A.*, +, *TPWRS May 2020 1923-1935*

Nonlinear control systems

A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. *Ugwuanyi, N.S.*, +, *TPWRS July 2020 3247-3257*

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*

Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*

Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T.*, +, *TPWRS March 2020 1562-1571*

Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems. *Hao, Y.*, +, *TPWRS March 2020 1166-1177*

Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Real-Time Transient Stability Assessment Using Dynamic Equivalents and Nonlinear Observers. *Iravani, A.*, +, *TPWRS July 2020 2981-2992*

Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A.*, +, *TPWRS May 2020 1923-1935*

Nonlinear differential equations

Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*

Solving Power System Differential Algebraic Equations Using Differential Transformation. *Liu, Y.*, +, *TPWRS May 2020 2289-2299*

Nonlinear dynamical systems

Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*

Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems. *Hao, Y.*, +, *TPWRS March 2020 1166-1177*

Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation. *Wu, D.*, +, *TPWRS July 2020 2915-2925*

Nonlinear equations

Convergence Analysis of Newton-Raphson Method in Feasible Power-Flow for DC Network. *Liu, Z.*, +, *TPWRS Sept. 2020 4100-4103*

Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R.*, +, *TPWRS March 2020 938-949*

New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M.*, +, *TPWRS Jan. 2020 527-538*

Nonlinear filters

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

Application of Detectability Analysis for Power System Dynamic State Estimation. *Zhou, N.*, +, *TPWRS July 2020 3274-3277*

Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. *Chakhchoukh, Y.*, +, *TPWRS March 2020 1188-1197*

Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T.*, +, *TPWRS March 2020 1562-1571*

Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. *Wang, Y.*, +, *TPWRS Jan. 2020 691-702*

Nonlinear programming

A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X.*, +, *TPWRS July 2020 2959-2970*

A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*

An Adaptive Bilevel Programming Model for Nonparametric Prediction Intervals of Wind Power Generation. *Zhao, C.*, +, *TPWRS Jan. 2020 424-439*

Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*

Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVac Power Systems. *Nguyen, Q.*, +, *TPWRS May 2020 1979-1989*

Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M.*, +, *TPWRS Jan. 2020 584-593*

Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*

Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*

Nonparametric statistics

Probabilistic Power Flow Based on a Gaussian Process Emulator. *Xu, Y.*, +, *TPWRS July 2020 3278-3281*

Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*

Normal distribution

Effect of Loss of Load Probability Distribution on Operating Reserve Demand Curve Performance in Energy-Only Electricity Market. *Subramanyam, S.A.*, +, *TPWRS July 2020 3297-3300*

Numerical analysis

A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*

A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*

A Greedy Algorithm for Observability Analysis. *Herrero, H.*, +, *TPWRS March 2020 1638-1641*

Coalitional Game-Based Transactive Energy Management in Local Energy Communities. *Feng, C.*, +, *TPWRS May 2020 1729-1740*

Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*

Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. *Chen, S.*, +, *TPWRS May 2020 1956-1966*

Optimal Nonparametric Prediction Intervals of Electricity Load. *Zhao, C.*, +, *TPWRS May 2020 2467-2470*

Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*

Quantifying Market Efficiency Impacts of Aggregated Distributed Energy Resources. *Alshehri, K.*, +, *TPWRS Sept. 2020 4067-4077*

Tight Formulation of Transition Ramping of Combined Cycle Units. *Hua, B.*, +, *TPWRS May 2020 2167-2175*

Numerical models

Data-Driven Distributionally Robust Unit Commitment With Wasserstein Metric: Tractable Formulation and Efficient Solution Method. *Zheng, X.*, +, *TPWRS Nov. 2020 4940-4943*

Measurement-Based Optimal DER Dispatch With a Recursively Estimated Sensitivity Model. *Nowak, S.*, +, *TPWRS Nov. 2020 4792-4802*

Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TPWRS Nov. 2020 4836-4846*

Theory and Implementation of Fractional Order Controllers for Power System Applications. *Tzounas, G.*, +, *TPWRS Nov. 2020 4622-4631*

Tri-Level Mixed-Integer Optimization for Two-Stage Microgrid Dispatch With Multi-Uncertainties. *Qiu, H.*, +, *TPWRS Sept. 2020 3636-3647*

Numerical simulation

A Multi-Agent Deep Reinforcement Learning Method for Cooperative Load Frequency Control of a Multi-Area Power System. *Yan, Z.*, +, *TPWRS Nov. 2020 4599-4608*

Numerical stability

Time Integration-Based IGD Methods for Eigen-Analysis of Large Delayed Cyber-Physical Power System. *Ye, H.*, +, *TPWRS March 2020 1376-1388*

Nyquist criterion

Characterization of Subsynchronous Oscillation with Wind Farms Using Describing Function and Generalized Nyquist Criterion. *Xu, Y.*, +, *TPWRS July 2020 2783-2793*

Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S.*, +, *TPWRS July 2020 3026-3039*

New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J.*, +, *TPWRS May 2020 1967-1978*

Nyquist diagrams

Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*

O

Object-oriented programming

hynet: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems. *Hotz, M.*, +, *TPWRS March 2020 1036-1047*

Observability

A Greedy Algorithm for Observability Analysis. *Herrero, H.*, +, *TPWRS March 2020 1638-1641*

A Topological Sorting Approach to Identify Coherent Cut-Sets Within Power Grids. *Beiranvand, A.*, +, *TPWRS Jan. 2020 721-730*

Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption. *Chatterjee, K.*, +, *TPWRS Nov. 2020 4723-4733*

Observers

Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*

PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M.*, +, *TPWRS May 2020 2268-2278*

Real-Time Transient Stability Assessment Using Dynamic Equivalents and Nonlinear Observers. *Iravani, A.*, +, *TPWRS July 2020 2981-2992*

Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A.*, +, *TPWRS May 2020 1923-1935*

Offshore installations

Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*

On load tap changers

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*

Optimal control

A Data-Based Learning and Control Method for Long-Term Voltage Stability. *Cai, H.*, +, *TPWRS July 2020 3203-3212*

Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*

Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations. *Nazari, M.H.*, +, *TPWRS July 2020 3192-3202*

Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation. *Lyu, X.*, +, *TPWRS Nov. 2020 4956-4959*

Correction to “Convex Relaxations of Chance Constrained AC Optimal Power Flow” [May 18 2829-2841]. *Venzke, A.*, +, *TPWRS Sept. 2020 4142*

Correction to “Minimizing Unserved Energy Using Heterogeneous Storage Units” [Sep 19 3647-3656]. *Evans, M.P.*, +, *TPWRS Sept. 2020 4144*

Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*

Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T.*, +, *TPWRS March 2020 1562-1571*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Joint Estimation of Operational Topology and Outages for Unbalanced Power Distribution Systems. *Gandluru, A.*, +, *TPWRS Jan. 2020 605-617*

Model-Free Fast Frequency Control Support With Energy Storage System. *Liu, W.*, +, *TPWRS July 2020 3078-3086*

Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*

Stochastic and Distributionally Robust Load Ensemble Control. *Hassan, A.*, +, *TPWRS Nov. 2020 4678-4688*

Transmission-Line Switching for Load Shed Prevention via an Accelerated Linear Programming Approximation of AC Power Flows. *Brown, W.E.*, +, *TPWRS July 2020 2575-2585*

Optimization

A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. *Liu, T.*, +, *TPWRS Sept. 2020 4088-4099*

A Cluster-Based Operation Model of Aggregated Battery Swapping Stations. *Sepehtan, K.*, +, *TPWRS Jan. 2020 249-260*

A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*

A Distributed Framework for Solving and Benchmarking Security Constrained Unit Commitment With Warm Start. *Chen, Y.*, +, *TPWRS Jan. 2020 711-720*

A Fast LP-Based Approach for Robust Dynamic Economic Dispatch Problem: A Feasible Region Projection Method. *Liu, Y.*, +, *TPWRS Sept. 2020 4116-4119*

A Local Market Mechanism for Physical Storage Rights. *Thomas, D.*, +, *TPWRS July 2020 3087-3099*

A Model to Mitigate Forecast Uncertainties in Distribution Systems Using the Temporal Flexibility of EVAs. *Lu, X.*, +, *TPWRS May 2020 2212-2221*

A Novel Decomposition Solution Approach for the Restoration Problem in Distribution Networks. *Sekhvatmanesh, H.*, +, *TPWRS Sept. 2020 3810-3824*

A Pool Strategy of Microgrid in Power Distribution Electricity Market. *Wu, Y.*, +, *TPWRS Jan. 2020 3-12*

A Topological Sorting Approach to Identify Coherent Cut-Sets Within Power Grids. *Beiranvand, A.*, +, *TPWRS Jan. 2020 721-730*

A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*

A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*

A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*

Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X.*, +, *TPWRS May 2020 2047-2058*

An Endogenous Approach to Quantifying the Wind Power Reserve. *Huang, H.*, +, *TPWRS May 2020 2431-2442*

An Improved Genetic Algorithm Approach to the Unit Commitment/Economic Dispatch Problem. *Ponciroli, R.*, +, *TPWRS Sept. 2020 4005-4013*

Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning. *Bukenberger, J.P.*, +, *TPWRS March 2020 1099-1108*

Approximating Economic Dispatch by Linearizing Transmission Losses. *Garcia, M.*, +, *TPWRS March 2020 1009-1022*

Arbitrage With Power Factor Correction Using Energy Storage. *Hashmi, M.U.*, +, *TPWRS July 2020 2693-2703*

Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*

Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*

Closure to Discussion on "Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids". *Lee, J.*, +, *TPWRS Sept. 2020 4139*

Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*

Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*

Data-Driven Distributionally Robust Unit Commitment With Wasserstein Metric: Tractable Formulation and Efficient Solution Method. *Zheng, X.*, +, *TPWRS Nov. 2020 4940-4943*

Data-Driven Planning for Renewable Distributed Generation Integration. *Fathabad, A.M.*, +, *TPWRS Nov. 2020 4357-4368*

Data-Driven Screening of Network Constraints for Unit Commitment. *Pineda, S.*, +, *TPWRS Sept. 2020 3695-3705*

Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S.*, +, *TPWRS March 2020 1132-1142*

Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*

Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*

Distributed Global Economical Load Sharing for a Cluster of DC Microgrids. *Zaery, M.*, +, *TPWRS Sept. 2020 3410-3420*

Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*

Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. *Ruan, H.*, +, *TPWRS Nov. 2020 4220-4231*

Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*

Distributionally Robust Co-Optimization of Power Dispatch and Do-Not-Exceed Limits. *Ma, H.*, +, *TPWRS March 2020 887-897*

Distributionally Robust CVaR Constraints for Power Flow Optimization. *Jabr, R.A.*, *TPWRS Sept. 2020 3764-3773*

Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*

Distributionally Robust Transmission Expansion Planning: A Multi-Scale Uncertainty Approach. *Velloso, A.*, +, *TPWRS Sept. 2020 3353-3365*

Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Basse, O.*, +, *TPWRS Jan. 2020 202-214*

Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part II: Practice. *Zhao, F.*, +, *TPWRS Nov. 2020 4888-4895*

Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part I: Theory. *Zhao, F.*, +, *TPWRS Nov. 2020 4880-4887*

Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*

Fast Security-Constrained Optimal Power Flow Through Low-Impact and Redundancy Screening. *Weinhold, R.*, +, *TPWRS Nov. 2020 4574-4584*

Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Impact of Market Timing on the Profit of a Risk-Averse Load Aggregator. *Herre, L.*, +, *TPWRS Sept. 2020 3970-3980*

Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*

Inverse Equilibrium Analysis of Oligopolistic Electricity Markets. *Risanger, S.*, +, *TPWRS Nov. 2020 4159-4166*

- Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*
- Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*
- Measurement-Based Optimal DER Dispatch With a Recursively Estimated Sensitivity Model. *Nowak, S.*, +, *TPWRS Nov. 2020 4792-4802*
- Multidimensional Scenario Selection for Power Systems With Stochastic Failures. *Mohammadi, F.*, +, *TPWRS Nov. 2020 4528-4538*
- Multivariate Quantile Regression for Short-Term Probabilistic Load Forecasting. *Bracale, A.*, +, *TPWRS Jan. 2020 628-638*
- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*
- OATS: Optimisation and Analysis Toolbox for Power Systems. *Bukhsh, W.*, +, *TPWRS Sept. 2020 3552-3561*
- On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K.*, +, *TPWRS March 2020 840-853*
- On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning. *Arroyo, J.M.*, +, *TPWRS Nov. 2020 4964-4967*
- Online Periodic Coordination of Multiple Pulsed Loads on All-Electric Ships. *Xie, R.*, +, *TPWRS July 2020 2658-2669*
- Online Preventive Control Method for Static Voltage Stability of Large Power Grids. *Yun, Z.*, +, *TPWRS Nov. 2020 4689-4698*
- Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*
- Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*
- Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*
- Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*
- Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S.*, +, *TPWRS Jan. 2020 98-108*
- Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R.*, +, *TPWRS March 2020 1274-1283*
- Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems. *Badesa, L.*, +, *TPWRS Nov. 2020 4459-4469*
- Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*
- Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*
- Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part II: Implications. *Schipper, J.*, +, *TPWRS Sept. 2020 3961-3969*
- Power Market Model in Presence of Strategic Prosumers. *Ramyar, S.*, +, *TPWRS March 2020 898-908*
- Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*
- Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach. *Mak, T.W.K.*, +, *TPWRS March 2020 1627-1637*
- Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*
- Real-Time Optimal Power Flow: A Lagrangian Based Deep Reinforcement Learning Approach. *Yan, Z.*, +, *TPWRS July 2020 3270-3273*
- Resource Adequacy in Electricity Markets With Renewable Energy. *Kwon, J.*, +, *TPWRS Jan. 2020 773-781*
- Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*
- Robust Resiliency-Oriented Operation of Active Distribution Networks Considering Windstorms. *Esfahani, M.*, +, *TPWRS Sept. 2020 3481-3493*
- Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*
- Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*
- Scenario-Wise Distributionally Robust Optimization for Collaborative Intermittent Resources and Electric Vehicle Aggregator Bidding Strategy. *Hajebrahimi, A.*, +, *TPWRS Sept. 2020 3706-3718*
- Singular Perturbation for the Dynamic Modeling of Integrated Energy Systems. *Shen, F.*, +, *TPWRS May 2020 1718-1728*
- Stochastic and Distributionally Robust Load Ensemble Control. *Hassan, A.*, +, *TPWRS Nov. 2020 4678-4688*
- Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*
- Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*
- Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy. *Lin, W.*, +, *TPWRS May 2020 2222-2231*
- Towards Balancing Market Integration: Conversion Process for Balancing Energy Offers of Central-Dispatch Systems. *Marnieris, I.G.*, +, *TPWRS Jan. 2020 293-303*
- Transmission Expansion Planning Test System for AC/DC Hybrid Grid With High Variable Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS July 2020 2597-2608*
- Tri-Level Mixed-Integer Optimization for Two-Stage Microgrid Dispatch With Multi-Uncertainties. *Qiu, H.*, +, *TPWRS Sept. 2020 3636-3647*
- Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J.*, +, *TPWRS March 2020 1340-1350*
- Uncertainty Analysis Using Fuzzy Transformation Method: An Application in Power-Flow Studies. *Aghili, S.J.*, +, *TPWRS Jan. 2020 42-52*
- Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. *Bottieau, J.*, +, *TPWRS March 2020 1218-1230*
- Oscillations**
- A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*
- Characterization of Subsynchronous Oscillation with Wind Farms Using Describing Function and Generalized Nyquist Criterion. *Xu, Y.*, +, *TPWRS July 2020 2783-2793*
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*
- Equipment-Level Locating of Low Frequency Oscillating Source in Power System With DFIG Integration Based on Dynamic Energy Flow. *Ma, J.*, +, *TPWRS Sept. 2020 3433-3447*
- Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*
- Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C.*, *TPWRS Sept. 2020 3918-3926*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*

Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation. *Wu, D.*, +, *TPWRS July 2020 2915-2925*

Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S.*, +, *TPWRS July 2020 3100-3113*

Separable Estimation of Ambient Noise Spectrum in Synchrophasor Measurements in the Presence of Forced Oscillations. *Khan, M.A.*, +, *TPWRS Jan. 2020 415-423*

Oscillators

Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*

Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption. *Chatterjee, K.*, +, *TPWRS Nov. 2020 4723-4733*

Overhead line conductors

Preventive Dispatch for Transmission De-icing. *Jafarishadeh, F.*, +, *TPWRS Sept. 2020 4104-4107*

Overvoltage

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

P

Parallel algorithms

Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 539-550*

Parallel architectures

Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*

Parameter estimation

Enhanced Modelling Framework for Equivalent Circuit-Based Power System State Estimation. *Jovicic, A.*, +, *TPWRS Sept. 2020 3790-3799*

Estimation of Parameters of a Dynamic Generator Model From Modal PMU Measurements. *Gorunov, A.*, +, *TPWRS Jan. 2020 53-62*

Online Estimation of System Inertia in a Power Network Utilizing Synchrophasor Measurements. *Panda, R.K.*, +, *TPWRS July 2020 3122-3132*

Online Identification of Inertia Distribution in Normal Operating Power System. *Zeng, F.*, +, *TPWRS July 2020 3301-3304*

Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A.*, +, *TPWRS May 2020 1796-1804*

Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. *Jin, Y.*, +, *TPWRS May 2020 1769-1782*

Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*

Pareto optimization

A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H.*, +, *TPWRS July 2020 3262-3265*

Power System Security Taxonomy Introducing Two New Approaches. *da Silva Neto, C.A.*, +, *TPWRS Jan. 2020 487-495*

Particle filtering (numerical methods)

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

Particle swarm optimization

Kriging Assisted Surrogate Evolutionary Computation to Solve Optimal Power Flow Problems. *Deng, Z.*, +, *TPWRS March 2020 831-839*

Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. *Ponocko, J.*, +, *TPWRS May 2020 1822-1833*

Pattern classification

Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*

PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators. *Paul, A.*, +, *TPWRS May 2020 1707-1717*

Pattern clustering

A Cluster-Based Operation Model of Aggregated Battery Swapping Stations. *Sepetanc, K.*, +, *TPWRS Jan. 2020 249-260*

A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*

A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*

Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis. *Ryu, S.*, +, *TPWRS March 2020 1048-1060*

External System Generator Outage Localization Based on Tie-Line Synchrophasor Measurements. *Dai, Z.*, +, *TPWRS March 2020 1597-1605*

Impact of High Renewable Penetration on the Power System Operation Mode: A Data-Driven Approach. *Hou, Q.*, +, *TPWRS Jan. 2020 731-741*

Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification. *Liu, S.*, +, *TPWRS March 2020 1653-1656*

Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*

Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T.*, +, *TPWRS March 2020 920-928*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

Peer-to-peer computing

A P2P-Dominant Distribution System Architecture. *Kim, J.*, +, *TPWRS July 2020 2716-2725*

Performance analysis

Performance Analysis of Skewness Methods for Asymmetry Detection in High Impedance Faults. *Ozansoy, C.*, *TPWRS Nov. 2020 4952-4955*

Permanent magnet generators

Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*

Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A.*, +, *TPWRS May 2020 1796-1804*

Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*

Perturbation methods

A Library of Second-Order Models for Synchronous Machines. *Ajala, O.*, +, *TPWRS Nov. 2020 4803-4814*

Perturbation techniques

Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*

Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. *Zhou, N.*, +, *TPWRS March 2020 1479-1488*

Petri nets

Measuring Systemic Risk of Switching Attacks Based on Cybersecurity Technologies in Substations. *Yamashita, K.*, +, *TPWRS Nov. 2020 4206-4219*

Phase locked loops

A Discrete-Time Non-Adaptive SOGI-Based Frequency-Locked Loop. *Yu, J.*, +, *TPWRS Nov. 2020 4912-4915*

Coherency Identification for Wind-Integrated Power System Using Virtual Synchronous Motion Equation. *Liu, J.*, +, *TPWRS July 2020 2619-2630*

Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*

Impact of Current Transients on the Synchronization Stability Assessment of Grid-Feeding Converters. *Chen, J.*, +, *TPWRS Sept. 2020 4131-4134*

PLL and Additional Frequency Control Constituting an Adaptive Synchronization Mechanism for VSCs. *Zhang, M.*, +, *TPWRS Nov. 2020 4920-4923*

Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*

Phase measurement

Adaptive Event Location Technique via Time Difference of Event Arrival. *Kim, D.*, +, *TPWRS Jan. 2020 75-84*

Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T.*, +, *TPWRS March 2020 920-928*

Phasor measurement units

A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. *Azman, S.K.*, +, *TPWRS Nov. 2020 4585-4598*

Phasor measurement

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*

A Synchrophasor Data-Driven Method for Forced Oscillation Localization Under Resonance Conditions. *Huang, T.*, +, *TPWRS Sept. 2020 3927-3939*

Adaptive Event Location Technique via Time Difference of Event Arrival. *Kim, D.*, +, *TPWRS Jan. 2020 75-84*

An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS March 2020 1642-1645*

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*

Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. *Chakhchoukh, Y.*, +, *TPWRS March 2020 1188-1197*

Distributed Cooperative Scheme for Forced Oscillation Location Identification in Power Systems. *Wu, X.*, +, *TPWRS Jan. 2020 374-384*

Enhanced Modelling Framework for Equivalent Circuit-Based Power System State Estimation. *Jovicic, A.*, +, *TPWRS Sept. 2020 3790-3799*

Estimation of Parameters of a Dynamic Generator Model From Modal PMU Measurements. *Gorbunov, A.*, +, *TPWRS Jan. 2020 53-62*

Evaluating Measurement-Based Dynamic Load Modeling Techniques and Metrics. *Cicilio, P.*, +, *TPWRS May 2020 1805-1811*

External System Generator Outage Localization Based on Tie-Line Synchrophasor Measurements. *Dai, Z.*, +, *TPWRS March 2020 1597-1605*

Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data. *Wang, W.*, +, *TPWRS May 2020 2483-2486*

Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y.*, +, *TPWRS May 2020 2412-2421*

Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*

Identification of Generalized Short-Circuit Ratio for On-Line Stability Monitoring of Wind Farms. *Huang, L.*, +, *TPWRS July 2020 3282-3285*

Impact of Synchrophasor Estimation Algorithms in ROCOF-Based Under-Frequency Load-Shedding. *Zuo, Y.*, +, *TPWRS March 2020 1305-1316*

Modeless Streaming Synchrophasor Data Recovery in Nonlinear Systems. *Hao, Y.*, +, *TPWRS March 2020 1166-1177*

Online Estimation of System Inertia in a Power Network Utilizing Synchrophasor Measurements. *Panda, R.K.*, +, *TPWRS July 2020 3122-3132*

PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators. *Paul, A.*, +, *TPWRS May 2020 1707-1717*

Resiliency-Driven Proactive Distribution System Reconfiguration With Synchrophasor Data. *Pandey, S.*, +, *TPWRS July 2020 2748-2758*

Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*

Separable Estimation of Ambient Noise Spectrum in Synchrophasor Measurements in the Presence of Forced Oscillations. *Khan, M.A.*, +, *TPWRS Jan. 2020 415-423*

Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T.*, +, *TPWRS March 2020 920-928*

Phasor measurement units

A Block Version of Orthogonal Rotations for Improving the Accuracy of Hybrid State Estimators. *Bez, D.M.*, +, *TPWRS Nov. 2020 4432-4444*

A Clustering-Based Approach for Estimation of Low Frequency Oscillations in Power Systems. *Pande, P.W.*, +, *TPWRS Nov. 2020 4666-4677*

A Real Time Event Detection, Classification and Localization Using Synchrophasor Data. *Pandey, S.*, +, *TPWRS Nov. 2020 4421-4431*

A Scheme to Mitigate Generation Trip Events by Ancillary Services Considering Minimal Actions of UFLS. *Lai, C.*, +, *TPWRS Nov. 2020 4815-4823*

Physics-Aware Neural Networks for Distribution System State Estimation. *Zamzam, A.S.*, +, *TPWRS Nov. 2020 4347-4356*

PMU Missing Data Recovery Using Tensor Decomposition. *Osipov, D.*, +, *TPWRS Nov. 2020 4554-4563*

Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*

Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption. *Chatterjee, K.*, +, *TPWRS Nov. 2020 4723-4733*

Photovoltaic power systems

A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*

A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters. *Cao, D.*, +, *TPWRS Sept. 2020 4120-4123*

A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*

Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*

Online Estimation of System Inertia in a Power Network Utilizing Synchrophasor Measurements. *Panda, R.K.*, +, *TPWRS July 2020 3122-3132*

Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*

Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*

Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*

Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*

Photovoltaic systems

Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. *Varma, R.K.*, +, *TPWRS Nov. 2020 4251-4262*

Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes. *Shim, J.W.*, +, *TPWRS Nov. 2020 4655-4665*

Unbalance Mitigation via Phase-Switching Device and Static Var Compensator in Low-Voltage Distribution Network. *Liu, B.*, +, *TPWRS Nov. 2020 4856-4869*

PI control

A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*

A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*

Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*

Event-Triggered Load Frequency Control via Switching Approach. *Saxena, S.*, +, *TPWRS Nov. 2020 4484-4494*

Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. *Ling, Y.*, +, *TPWRS Nov. 2020 4263-4271*

Piecewise linear techniques

A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*

Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*

- Coalitional Game-Based Transactive Energy Management in Local Energy Communities. *Feng, C.*, +, *TPWRS May 2020 1729-1740*
- Stochastic Unit Commitment in Low-Inertia Grids. *Patuere, M.*, +, *TPWRS Sept. 2020 3448-3458*
- Pitch control (position)**
- Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*
- Polynomials**
- A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*
- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*
- An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance. *Liu, L.*, +, *TPWRS July 2020 2527-2536*
- Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology. *Schipper, J.*, +, *TPWRS Sept. 2020 3953-3960*
- Power system economics**
- Economic Interpretation of Demand Curves in Multi-Product Electricity Markets—Part I: Theory. *Zhao, F.*, +, *TPWRS Nov. 2020 4880-4887*
- Power apparatus**
- A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems. *Cordeiro, A.*, +, *TPWRS May 2020 2144-2154*
- Power cables**
- Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*
- Time-Process Power Flow Calculation Considering Thermal Behavior of Transmission Components. *Zhou, S.*, +, *TPWRS Nov. 2020 4232-4250*
- Power capacitors**
- Security-Constrained ACOFP: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X.*, +, *TPWRS May 2020 1936-1945*
- Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach. *Esmaili, M.*, +, *TPWRS Nov. 2020 4396-4407*
- Power consumption**
- Estimation of Voltage Dependent Load Models Through Power and Frequency Measurements. *Ortega, A.*, +, *TPWRS July 2020 3308-3311*
- Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*
- Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. *Chen, K.*, +, *TPWRS May 2020 2362-2373*
- Power control**
- Coherency Identification for Wind-Integrated Power System Using Virtual Synchronous Motion Equation. *Liu, J.*, +, *TPWRS July 2020 2619-2630*
- Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation. *Lyu, X.*, +, *TPWRS Nov. 2020 4956-4959*
- State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. *Chitsazan, M.A.*, +, *TPWRS Jan. 2020 238-248*
- Power conversion**
- Towards Balancing Market Integration: Conversion Process for Balancing Energy Offers of Central-Dispatch Systems. *Marneris, I.G.*, +, *TPWRS Jan. 2020 293-303*
- Power converters**
- Exhaustive Modal Analysis of Large-Scale Interconnected Power Systems With High Power Electronics Penetration. *Kouki, M.*, +, *TPWRS July 2020 2759-2768*
- Impact of Current Transients on the Synchronization Stability Assessment of Grid-Feeding Converters. *Chen, J.*, +, *TPWRS Sept. 2020 4131-4134*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*
- Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*
- Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z.*, +, *TPWRS Sept. 2020 4056-4066*
- Power demand**
- Impact of Market Timing on the Profit of a Risk-Averse Load Aggregator. *Herre, L.*, +, *TPWRS Sept. 2020 3970-3980*
- Power distribution**
- A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems. *Cordeiro, A.*, +, *TPWRS May 2020 2144-2154*
- Maximum Marginal Likelihood Estimation of Phase Connections in Power Distribution Systems. *Wang, W.*, +, *TPWRS Sept. 2020 3906-3917*
- On the Radiality Constraints for Distribution System Restoration and Reconfiguration Problems. *Wang, Y.*, +, *TPWRS July 2020 3294-3296*
- Online Identification of Inertia Distribution in Normal Operating Power System. *Zeng, F.*, +, *TPWRS July 2020 3301-3304*
- Power distribution control**
- A Flexible Operation of Distributed Generation in Distribution Networks With Dynamic Boundaries. *Zhao, T.*, +, *TPWRS Sept. 2020 4127-4130*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*
- Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X.*, +, *TPWRS May 2020 2047-2058*
- Closure to Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids”. *Lee, J.*, +, *TPWRS Sept. 2020 4139*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*
- Communication-Free Current Sharing Control Strategy for DC Microgrids and Its Application for AC/DC Hybrid Microgrids. *Kirakosyan, A.*, +, *TPWRS Jan. 2020 140-151*
- Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H.*, +, *TPWRS May 2020 2133-2143*
- Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids”. *Khalid, M.*, *TPWRS Sept. 2020 4138*
- Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*
- Distributed Secondary Control for Islanded Microgrids With Mobile Emergency Resources. *Zhou, Q.*, +, *TPWRS March 2020 1389-1399*
- Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F.*, +, *TPWRS May 2020 2190-2199*
- Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*
- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*
- Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q.*, +, *TPWRS Jan. 2020 474-486*
- Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*
- Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TPWRS Jan. 2020 762-772*
- Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment. *Bharati, A.K.*, +, *TPWRS May 2020 2072-2081*
- Joint Estimation of Operational Topology and Outages for Unbalanced Power Distribution Systems. *Gandluru, A.*, +, *TPWRS Jan. 2020 605-617*

Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. *Ponocko, J.*, +, *TPWRS May 2020 1822-1833*

Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*

Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*

Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*

PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M.*, +, *TPWRS May 2020 2268-2278*

Resiliency-Driven Proactive Distribution System Reconfiguration With Synchrophasor Data. *Pandey, S.*, +, *TPWRS July 2020 2748-2758*

Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D.*, +, *TPWRS May 2020 1663-1673*

Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q.*, +, *TPWRS July 2020 3004-3014*

Power distribution economics

A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*

A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*

A Distributed Framework for Solving and Benchmarking Security Constrained Unit Commitment With Warm Start. *Chen, Y.*, +, *TPWRS Jan. 2020 711-720*

A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*

A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*

A P2P-Dominant Distribution System Architecture. *Kim, J.*, +, *TPWRS July 2020 2716-2725*

A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*

Cost-Benefit Analysis of Phase Balancing Solution for Data-Scarce LV Networks by Cluster-Wise Gaussian Process Regression. *Kong, W.*, +, *TPWRS July 2020 3170-3180*

Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*

Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*

Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*

Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q.*, +, *TPWRS Jan. 2020 474-486*

Fraud Detection in Electric Power Distribution: An Approach That Maximizes the Economic Return. *Massaferro, P.*, +, *TPWRS Jan. 2020 703-710*

Monopolistic and Game-Based Approaches to Transact Energy Flexibility. *Gazafroudi, A.S.*, +, *TPWRS March 2020 1075-1084*

Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*

Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*

Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S.*, +, *TPWRS Jan. 2020 98-108*

Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*

Power distribution faults

A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids. *Pompodakis, E.E.*, +, *TPWRS March 2020 1143-1155*

A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*

A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators. *Popovic, Z.N.*, +, *TPWRS Sept. 2020 3895-3905*

Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*

Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*

Distributed Secondary Control for Islanded Microgrids With Mobile Emergency Resources. *Zhou, Q.*, +, *TPWRS March 2020 1389-1399*

Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F.*, +, *TPWRS May 2020 2190-2199*

Distributed Small-Signal Stability Conditions for Inverter-Based Unbalanced Microgrids. *Nandanoori, S.P.*, +, *TPWRS Sept. 2020 3981-3990*

Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassej, O.*, +, *TPWRS Jan. 2020 202-214*

Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q.*, +, *TPWRS Jan. 2020 474-486*

Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*

Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. *Strezoski, L.V.*, +, *TPWRS March 2020 1209-1217*

Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*

Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*

Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q.*, +, *TPWRS Sept. 2020 3847-3856*

Reachable Power Flow. *Zhou, Y.*, +, *TPWRS July 2020 3290-3293*

Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*

Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q.*, +, *TPWRS July 2020 3004-3014*

Power distribution lines

A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X.*, +, *TPWRS July 2020 2959-2970*

Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H.*, +, *TPWRS May 2020 2133-2143*

Lossy DistFlow Formulation for Single and Multiphase Radial Feeders. *Schweitzer, E.*, +, *TPWRS May 2020 1758-1768*

Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D.*, +, *TPWRS May 2020 1663-1673*

Power distribution networks

A Novel Probabilistic Method for Energy Loss Estimation Using Minimal Line Current Information. *Wu, H.*, +, *TPWRS Nov. 2020 4928-4931*

Closure to Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation". *Song, Y.*, +, *TPWRS Nov. 2020 4975-4976*

Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation". *Al-Ismael, F.S.*, *TPWRS Nov. 2020 4974*

Unbalance Mitigation via Phase-Switching Device and Static Var Compensator in Low-Voltage Distribution Network. *Liu, B.*, +, *TPWRS Nov. 2020 4856-4869*

Power distribution planning

A Model to Mitigate Forecast Uncertainties in Distribution Systems Using the Temporal Flexibility of EVAs. *Lu, X.*, +, *TPWRS May 2020 2212-2221*

Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*

Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. *Zhao, M.*, +, *TPWRS May 2020 2176-2189*

Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F.*, +, *TPWRS May 2020 2190-2199*

Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*

Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing. *Dobbe, R.*, +, *TPWRS May 2020 1674-1683*

Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*

Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*

Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*

Power distribution protection

Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*

Power distribution reliability

A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*

A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*

A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators. *Popovic, Z.N.*, +, *TPWRS Sept. 2020 3895-3905*

A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*

Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*

Development and Integration of Momentary Event Models in Active Distribution System Reliability Assessment. *Gautam, P.*, +, *TPWRS July 2020 3236-3246*

Inverse Reliability Evaluation in Power Distribution Systems. *Sharifinia, S.*, +, *TPWRS Jan. 2020 818-820*

Joint Estimation of Operational Topology and Outages for Unbalanced Power Distribution Systems. *Gandluru, A.*, +, *TPWRS Jan. 2020 605-617*

Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*

Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*

Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q.*, +, *TPWRS Sept. 2020 3847-3856*

Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*

Power electronics

A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*

A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*

Exhaustive Modal Analysis of Large-Scale Interconnected Power Systems With High Power Electronics Penetration. *Kouki, M.*, +, *TPWRS July 2020 2759-2768*

Impact of Current Transients on the Synchronization Stability Assessment of Grid-Feeding Converters. *Chen, J.*, +, *TPWRS Sept. 2020 4131-4134*

Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*

Power engineering computing

hynet: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems. *Hotz, M.*, +, *TPWRS March 2020 1036-1047*

A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction. *Stappers, B.*, +, *TPWRS July 2020 3040-3050*

A Cluster-Based Operation Model of Aggregated Battery Swapping Stations. *Sepehri, K.*, +, *TPWRS Jan. 2020 249-260*

A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*

A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*

A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*

A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*

A New Fully Parallel BBDF Method in Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 304-314*

A Novel Method for Hourly Electricity Demand Forecasting. *Zhang, G.*, +, *TPWRS March 2020 1351-1363*

A P2P-Dominant Distribution System Architecture. *Kim, J.*, +, *TPWRS July 2020 2716-2725*

A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems. *Cordeiro, A.*, +, *TPWRS May 2020 2144-2154*

Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*

Adversarial Feature Learning of Online Monitoring Data for Operational Risk Assessment in Distribution Networks. *Shi, X.*, +, *TPWRS March 2020 975-985*

An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. *Zhang, Z.*, +, *TPWRS May 2020 1856-1867*

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H.*, +, *TPWRS Sept. 2020 3400-3409*

Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*

Communication-Free Current Sharing Control Strategy for DC Microgrids and Its Application for AC/DC Hybrid Microgrids. *Kirakosyan, A.*, +, *TPWRS Jan. 2020 140-151*

Convergence Analysis of Newton-Raphson Method in Feasible Power-Flow for DC Network. *Liu, Z.*, +, *TPWRS Sept. 2020 4100-4103*

Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis. *Ryu, S.*, +, *TPWRS March 2020 1048-1060*

Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*

Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes. *Jahromi, A.A.*, +, *TPWRS Jan. 2020 440-450*

Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L.*, +, *TPWRS March 2020 1646-1649*

Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*

Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*

Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*

Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*

Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X.*, +, *TPWRS March 2020 1549-1561*

- External System Generator Outage Localization Based on Tie-Line Synchronophasor Measurements. *Dai, Z.*, +, *TPWRS March 2020 1597-1605*
- Fast Cascading Outage Screening Based on Deep Convolutional Neural Network and Depth-First Search. *Du, Y.*, +, *TPWRS July 2020 2704-2715*
- Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovici, L.D.*, +, *TPWRS March 2020 864-872*
- Fraud Detection in Electric Power Distribution: An Approach That Maximizes the Economic Return. *Massafiero, P.*, +, *TPWRS Jan. 2020 703-710*
- From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. *Pan, K.*, +, *TPWRS March 2020 1584-1596*
- Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*
- Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*
- Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. *Buzau, M.*, +, *TPWRS March 2020 1254-1263*
- Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*
- Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*
- Improved Deep Mixture Density Network for Regional Wind Power Probabilistic Forecasting. *Zhang, H.*, +, *TPWRS July 2020 2549-2560*
- Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*
- Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach. *Tan, Y.*, +, *TPWRS May 2020 2475-2478*
- Load Flow-Based Method for Nontechnical Electrical Loss Detection and Location in Distribution Systems Using Smart Meters. *Ferreira, T.S.D.*, +, *TPWRS Sept. 2020 3671-3681*
- Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*
- Optimal Nonparametric Prediction Intervals of Electricity Load. *Zhao, C.*, +, *TPWRS May 2020 2467-2470*
- Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*
- Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification. *Liu, S.*, +, *TPWRS March 2020 1653-1656*
- Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach. *Mak, T.W.K.*, +, *TPWRS March 2020 1627-1637*
- Resiliency-Driven Proactive Distribution System Reconfiguration With Synchronophasor Data. *Pandey, S.*, +, *TPWRS July 2020 2748-2758*
- Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*
- Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*
- Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. *Chen, K.*, +, *TPWRS May 2020 2362-2373*
- Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D.*, +, *TPWRS May 2020 1663-1673*
- Transfer Learning-Based Power System Online Dynamic Security Assessment: Using One Model to Assess Many Unlearned Faults. *Ren, C.*, +, *TPWRS Jan. 2020 821-824*
- Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J.*, +, *TPWRS March 2020 1340-1350*
- Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning. *Tan, M.*, +, *TPWRS July 2020 2937-2948*
- Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*
- Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. *Bottieau, J.*, +, *TPWRS March 2020 1218-1230*
- Power engineering education**
- A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems. *Cordeiro, A.*, +, *TPWRS May 2020 2144-2154*
- Power factor**
- Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning. *Bukenberger, J.P.*, +, *TPWRS March 2020 1099-1108*
- Power factor correction**
- Arbitrage With Power Factor Correction Using Energy Storage. *Hashmi, M.U.*, +, *TPWRS July 2020 2693-2703*
- Power generation**
- Agent-Based Modeling in Electricity Market Using Deep Deterministic Policy Gradient Algorithm. *Liang, Y.*, +, *TPWRS Nov. 2020 4180-4192*
- Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*
- Power generation control**
- A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters. *Cao, D.*, +, *TPWRS Sept. 2020 4120-4123*
- A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*
- A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*
- Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*
- An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*
- Correction to "A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator" [Jan 20 594-604]. *Li, M.*, +, *TPWRS July 2020 3316*
- Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*
- Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*
- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*
- Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. *Zhao, T.*, +, *TPWRS Sept. 2020 3729-3738*
- Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*
- Distributed Global Economical Load Sharing for a Cluster of DC Microgrids. *Zaery, M.*, +, *TPWRS Sept. 2020 3410-3420*
- Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *Mahish, P.*, +, *TPWRS Jan. 2020 362-373*
- Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*
- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*

- Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W., +, TPWRS March 2020 1606-1617*
- Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T., +, TPWRS March 2020 1562-1571*
- Explicit MPC Based on the Galerkin Method for AGC Considering Volatile Generations. *Qiu, Y., +, TPWRS Jan. 2020 462-473*
- Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S., +, TPWRS March 2020 1539-1548*
- Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R., +, TPWRS March 2020 854-863*
- Improving AGC Performance in Power Systems With Regulation Response Accuracy Margins Using Battery Energy Storage System (BESS). *Doenges, K., +, TPWRS July 2020 2816-2825*
- Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems. *Zhang, Y., +, TPWRS Jan. 2020 762-772*
- Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment. *Bharati, A.K., +, TPWRS May 2020 2072-2081*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G., +, TPWRS May 2020 2082-2092*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J., +, TPWRS Sept. 2020 4046-4055*
- Model-Free Fast Frequency Control Support With Energy Storage System. *Liu, W., +, TPWRS July 2020 3078-3086*
- New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J., +, TPWRS May 2020 1967-1978*
- Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C., +, TPWRS March 2020 1156-1165*
- Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S., +, TPWRS July 2020 3100-3113*
- Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q., +, TPWRS May 2020 2452-2462*
- Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y., +, TPWRS Jan. 2020 273-283*
- Optimal Mileage Based AGC Dispatch of a GenCo. *Zhang, X., +, TPWRS July 2020 2516-2526*
- Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A., +, TPWRS May 2020 1796-1804*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J., +, TPWRS May 2020 2002-2011*
- PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M., +, TPWRS May 2020 2268-2278*
- Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q., +, TPWRS Sept. 2020 3847-3856*
- Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S., +, TPWRS Jan. 2020 508-515*
- Security-Constrained ACOFP: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X., +, TPWRS May 2020 1936-1945*
- Sliding Framework for Inverter-Based Microgrid Control. *Li, Y., +, TPWRS March 2020 1657-1660*
- Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W., +, TPWRS July 2020 2609-2618*
- Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T., +, TPWRS Sept. 2020 3627-3635*
- Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R., +, TPWRS July 2020 3181-3191*
- Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z., +, TPWRS Sept. 2020 4056-4066*
- Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X., +, TPWRS March 2020 962-974*
- Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q., +, TPWRS July 2020 3004-3014*
- Power generation dispatch**
- A Distributed Framework for Solving and Benchmarking Security Constrained Unit Commitment With Warm Start. *Chen, Y., +, TPWRS Jan. 2020 711-720*
- A Fast LP-Based Approach for Robust Dynamic Economic Dispatch Problem: A Feasible Region Projection Method. *Liu, Y., +, TPWRS Sept. 2020 4116-4119*
- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B., +, TPWRS March 2020 873-886*
- A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X., +, TPWRS March 2020 1364-1375*
- A Linear Programming Approximation of Distributionally Robust Chance-Constrained Dispatch With Wasserstein Distance. *Zhou, A., +, TPWRS Sept. 2020 3366-3377*
- A Model to Mitigate Forecast Uncertainties in Distribution Systems Using the Temporal Flexibility of EVs. *Lu, X., +, TPWRS May 2020 2212-2221*
- A Multi-Period Market Design for Markets With Intertemporal Constraints. *Zhao, J., +, TPWRS July 2020 3015-3025*
- A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J., +, TPWRS March 2020 986-996*
- A Systematic Formulation Tightening Approach for Unit Commitment Problems. *Yan, B., +, TPWRS Jan. 2020 782-794*
- A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X., +, TPWRS Sept. 2020 3562-3573*
- A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z., +, TPWRS Sept. 2020 3800-3809*
- A Variable Reduction Method for Large-Scale Unit Commitment. *Li, X., +, TPWRS Jan. 2020 261-272*
- Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X., +, TPWRS May 2020 2047-2058*
- An Endogenous Approach to Quantifying the Wind Power Reserve. *Huang, H., +, TPWRS May 2020 2431-2442*
- An Improved Genetic Algorithm Approach to the Unit Commitment/Economic Dispatch Problem. *Ponciroli, R., +, TPWRS Sept. 2020 4005-4013*
- Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y., +, TPWRS July 2020 2769-2782*
- Approximating Economic Dispatch by Linearizing Transmission Losses. *Garcia, M., +, TPWRS March 2020 1009-1022*
- Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F., +, TPWRS Jan. 2020 516-526*
- Correction to "Minimizing Unserved Energy Using Heterogeneous Storage Units" [Sep 19 3647-3656]. *Evans, M.P., +, TPWRS Sept. 2020 4144*
- Data-Driven Screening of Network Constraints for Unit Commitment. *Pineda, S., +, TPWRS Sept. 2020 3695-3705*
- Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X., +, TPWRS July 2020 2561-2574*
- Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F., +, TPWRS July 2020 2888-2903*
- Distributionally Robust Co-Optimization of Power Dispatch and Do-Not-Exceed Limits. *Ma, H., +, TPWRS March 2020 887-897*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y., +, TPWRS May 2020 2155-2166*
- Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X., +, TPWRS March 2020 1549-1561*
- Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y., +, TPWRS March 2020 1178-1187*

- Incorporating Non-Convex Operating Characteristics Into Bi-Level Optimization Electricity Market Models. *Ye, Y.*, +, *TPWRS Jan. 2020 163-176*
- Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*
- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*
- OATS: Optimisation and Analysis Toolbox for Power Systems. *Bukhsh, W.*, +, *TPWRS Sept. 2020 3552-3561*
- On the Minimization of Uplift Payments for Multi-Period Dispatch. *Yang, Z.*, +, *TPWRS May 2020 2479-2482*
- Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*
- Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*
- Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S.*, +, *TPWRS Jan. 2020 98-108*
- Optimal Mileage Based AGC Dispatch of a GenCo. *Zhang, X.*, +, *TPWRS July 2020 2516-2526*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*
- Optimal Reconfiguration of DC Networks. *Altun, T.*, +, *TPWRS Nov. 2020 4272-4284*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology. *Schipper, J.*, +, *TPWRS Sept. 2020 3953-3960*
- Partition-Combine Uncertainty Set for Robust Unit Commitment. *Zhang, M.*, +, *TPWRS July 2020 3266-3269*
- Power Market Model in Presence of Strategic Prosumers. *Ramyar, S.*, +, *TPWRS March 2020 898-908*
- Power-Based Generation Expansion Planning for Flexibility Requirements. *Tejada-Arango, D.A.*, +, *TPWRS May 2020 2012-2023*
- Preventive Dispatch for Transmission De-icing. *Jafarishiadeh, F.*, +, *TPWRS Sept. 2020 4104-4107*
- Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*
- Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach. *Mak, T.W.K.*, +, *TPWRS March 2020 1627-1637*
- Reexamining the Distributed Slack Bus. *Dhople, S.V.*, +, *TPWRS Nov. 2020 4870-4879*
- Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*
- Stochastic and Distributionally Robust Load Ensemble Control. *Hassan, A.*, +, *TPWRS Nov. 2020 4678-4688*
- Stochastic Unit Commitment in Low-Inertia Grids. *Paturet, M.*, +, *TPWRS Sept. 2020 3448-3458*
- Temporal Decomposition for Security-Constrained Unit Commitment. *Safdarian, F.*, +, *TPWRS May 2020 1834-1845*
- Towards Accurate Modeling on Configuration Transitions and Dynamic Ramping of Combined-Cycle Units in UC Problems. *Liu, Y.*, +, *TPWRS May 2020 2200-2211*
- Towards Balancing Market Integration: Conversion Process for Balancing Energy Offers of Central-Dispatch Systems. *Marneris, I.G.*, +, *TPWRS Jan. 2020 293-303*
- Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z.*, +, *TPWRS Sept. 2020 4056-4066*
- Which Unit-Commitment Formulation is Best? A Comparison Framework. *Tejada-Arango, D.A.*, +, *TPWRS July 2020 2926-2936*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*
- Power generation economics**
- A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y.*, +, *TPWRS July 2020 2493-2505*
- A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction. *Stappers, B.*, +, *TPWRS July 2020 3040-3050*
- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A Fast LP-Based Approach for Robust Dynamic Economic Dispatch Problem: A Feasible Region Projection Method. *Liu, Y.*, +, *TPWRS Sept. 2020 4116-4119*
- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*
- A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X.*, +, *TPWRS March 2020 1364-1375*
- A Local Market Mechanism for Physical Storage Rights. *Thomas, D.*, +, *TPWRS July 2020 3087-3099*
- A Multi-Period Market Design for Markets With Intertemporal Constraints. *Zhao, J.*, +, *TPWRS July 2020 3015-3025*
- A Newton Method-Based Distributed Algorithm for Multi-Area Economic Dispatch. *Qin, J.*, +, *TPWRS March 2020 986-996*
- A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamanesh, M.*, +, *TPWRS July 2020 2847-2862*
- A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*
- A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*
- A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*
- An Endogenous Approach to Quantifying the Wind Power Reserve. *Huang, H.*, +, *TPWRS May 2020 2431-2442*
- An Improved Genetic Algorithm Approach to the Unit Commitment/Economic Dispatch Problem. *Ponciroli, R.*, +, *TPWRS Sept. 2020 4005-4013*
- Approximating Economic Dispatch by Linearizing Transmission Losses. *Garcia, M.*, +, *TPWRS March 2020 1009-1022*
- Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*
- Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*
- Correction to “Minimizing Unserved Energy Using Heterogeneous Storage Units” [Sep 19 3647-3656]. *Evans, M.P.*, +, *TPWRS Sept. 2020 4144*
- Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*
- Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*
- Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S.*, +, *TPWRS March 2020 1132-1142*
- Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*
- Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*
- Distributed Global Economical Load Sharing for a Cluster of DC Microgrids. *Zaery, M.*, +, *TPWRS Sept. 2020 3410-3420*
- Distributionally Robust Co-Optimization of Power Dispatch and Do-Not-Exceed Limits. *Ma, H.*, +, *TPWRS March 2020 887-897*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*
- Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*

- Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*
- Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*
- Impact of High Renewable Penetration on the Power System Operation Mode: A Data-Driven Approach. *Hou, Q.*, +, *TPWRS Jan. 2020 731-741*
- Incorporating Non-Convex Operating Characteristics Into Bi-Level Optimization Electricity Market Models. *Ye, Y.*, +, *TPWRS Jan. 2020 163-176*
- Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets. *Chen, S.*, +, *TPWRS July 2020 2736-2747*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*
- Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*
- Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*
- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*
- OATS: Optimisation and Analysis Toolbox for Power Systems. *Bukhsh, W.*, +, *TPWRS Sept. 2020 3552-3561*
- Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. *Chen, S.*, +, *TPWRS Jan. 2020 662-671*
- Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*
- Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*
- Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology. *Schipper, J.*, +, *TPWRS Sept. 2020 3953-3960*
- Power-Based Generation Expansion Planning for Flexibility Requirements. *Tejada-Arango, D.A.*, +, *TPWRS May 2020 2012-2023*
- Resource Adequacy in Electricity Markets With Renewable Energy. *Kwon, J.*, +, *TPWRS Jan. 2020 773-781*
- Security-Constrained ACOPF: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X.*, +, *TPWRS May 2020 1936-1945*
- The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C.*, +, *TPWRS Jan. 2020 119-127*
- Towards Accurate Modeling on Configuration Transitions and Dynamic Ramping of Combined-Cycle Units in UC Problems. *Liu, Y.*, +, *TPWRS May 2020 2200-2211*
- Towards Balancing Market Integration: Conversion Process for Balancing Energy Offers of Central-Dispatch Systems. *Marneris, I.G.*, +, *TPWRS Jan. 2020 293-303*
- Towards Definition of the Risk Premium Function. *Krecar, N.*, +, *TPWRS March 2020 1085-1098*
- Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*
- Unit Commitment With Gas Network Awareness. *Byeon, G.*, +, *TPWRS March 2020 1327-1339*
- Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*
- Power generation faults**
- A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*
- A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*
- Distributed and Asynchronous Active Fault Management for Networked Microgrids. *Wan, W.*, +, *TPWRS Sept. 2020 3857-3868*
- Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*
- Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*
- Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. *Strezoski, L.V.*, +, *TPWRS March 2020 1209-1217*
- The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*
- Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q.*, +, *TPWRS July 2020 3004-3014*
- Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions. *Li, Y.*, +, *TPWRS Jan. 2020 109-118*
- Power generation planning**
- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A Planning Model for a Hybrid AC–DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*
- Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*
- Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*
- Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F.*, +, *TPWRS July 2020 2888-2903*
- Fast Cumulant Method for Probabilistic Power Flow Considering the Non-linear Relationship of Wind Power Generation. *Lin, C.*, +, *TPWRS July 2020 2537-2548*
- Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*
- Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. *Chen, S.*, +, *TPWRS Jan. 2020 662-671*
- Power-Based Generation Expansion Planning for Flexibility Requirements. *Tejada-Arango, D.A.*, +, *TPWRS May 2020 2012-2023*
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*
- Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W.*, +, *TPWRS July 2020 2609-2618*
- Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*
- The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C.*, +, *TPWRS Jan. 2020 119-127*
- Thermal Inertial Aggregation Model for Integrated Energy Systems. *Lu, S.*, +, *TPWRS May 2020 2374-2387*
- Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*
- Power generation protection**
- Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*
- Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes. *Jahromi, A.A.*, +, *TPWRS Jan. 2020 440-450*

- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*
- Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*
- Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*
- Power generation reliability**
- A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*
- A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y.*, +, *TPWRS July 2020 2493-2505*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*
- A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*
- Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *Li, Z.*, +, *TPWRS March 2020 1457-1467*
- Availability Assessment Based Case-Sensitive Power System Restoration Strategy. *Liu, W.*, +, *TPWRS March 2020 1432-1445*
- Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*
- Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*
- Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*
- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*
- Probabilistic Modeling for Optimization of Resource Mix With Variable Generation and Storage. *Gao, W.*, +, *TPWRS Sept. 2020 4036-4045*
- Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*
- Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*
- Resource Adequacy in Electricity Markets With Renewable Energy. *Kwon, J.*, +, *TPWRS Jan. 2020 773-781*
- The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C.*, +, *TPWRS Jan. 2020 119-127*
- Towards Accurate Modeling on Configuration Transitions and Dynamic Ramping of Combined-Cycle Units in UC Problems. *Liu, Y.*, +, *TPWRS May 2020 2200-2211*
- Unit Commitment With Gas Network Awareness. *Byeon, G.*, +, *TPWRS March 2020 1327-1339*
- Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*
- Power generation scheduling**
- A Distributed Framework for Solving and Benchmarking Security Constrained Unit Commitment With Warm Start. *Chen, Y.*, +, *TPWRS Jan. 2020 711-720*
- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*
- A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X.*, +, *TPWRS March 2020 1364-1375*
- A Multi-Period Market Design for Markets With Intertemporal Constraints. *Zhao, J.*, +, *TPWRS July 2020 3015-3025*
- A Pool Strategy of Microgrid in Power Distribution Electricity Market. *Wu, Y.*, +, *TPWRS Jan. 2020 3-12*
- A Systematic Formulation Tightening Approach for Unit Commitment Problems. *Yan, B.*, +, *TPWRS Jan. 2020 782-794*
- A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*
- A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*
- A Variable Reduction Method for Large-Scale Unit Commitment. *Li, X.*, +, *TPWRS Jan. 2020 261-272*
- An Endogenous Approach to Quantifying the Wind Power Reserve. *Huang, H.*, +, *TPWRS May 2020 2431-2442*
- An Improved Genetic Algorithm Approach to the Unit Commitment/Economic Dispatch Problem. *Ponciroli, R.*, +, *TPWRS Sept. 2020 4005-4013*
- Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y.*, +, *TPWRS July 2020 2769-2782*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*
- Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F.*, +, *TPWRS Jan. 2020 516-526*
- Data-Driven Screening of Network Constraints for Unit Commitment. *Pineda, S.*, +, *TPWRS Sept. 2020 3695-3705*
- Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S.*, +, *TPWRS March 2020 1132-1142*
- Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*
- Distributed and Asynchronous Active Fault Management for Networked Microgrids. *Wan, W.*, +, *TPWRS Sept. 2020 3857-3868*
- Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F.*, +, *TPWRS July 2020 2888-2903*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*
- Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*
- Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*
- OATS: Optimisation and Analysis Toolbox for Power Systems. *Bukhsh, W.*, +, *TPWRS Sept. 2020 3552-3561*
- Partition-Combine Uncertainty Set for Robust Unit Commitment. *Zhang, M.*, +, *TPWRS July 2020 3266-3269*
- Power-Based Generation Expansion Planning for Flexibility Requirements. *Tejada-Arango, D.A.*, +, *TPWRS May 2020 2012-2023*
- Preventive Dispatch for Transmission De-icing. *Jafarishadeh, F.*, +, *TPWRS Sept. 2020 4104-4107*
- Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*
- Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*

- Stochastic Unit Commitment in Low-Inertia Grids. *Patoret, M.*, +, *TPWRS Sept. 2020 3448-3458*
- Temporal Decomposition for Security-Constrained Unit Commitment. *Safdarian, F.*, +, *TPWRS May 2020 1834-1845*
- Towards Accurate Modeling on Configuration Transitions and Dynamic Ramping of Combined-Cycle Units in UC Problems. *Liu, Y.*, +, *TPWRS May 2020 2200-2211*
- Towards Balancing Market Integration: Conversion Process for Balancing Energy Offers of Central-Dispatch Systems. *Marneris, I.G.*, +, *TPWRS Jan. 2020 293-303*
- Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z.*, +, *TPWRS Sept. 2020 4056-4066*
- Which Unit-Commitment Formulation is Best? A Comparison Framework. *Tejada-Arango, D.A.*, +, *TPWRS July 2020 2926-2936*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*

Power grids

- hynet*: An Optimal Power Flow Framework for Hybrid AC/DC Power Systems. *Hotz, M.*, +, *TPWRS March 2020 1036-1047*
- A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X.*, +, *TPWRS July 2020 2959-2970*
- A Comprehensive Load Flow Approach for Grid-Connected and Islanded AC Microgrids. *Pompodakis, E.E.*, +, *TPWRS March 2020 1143-1155*
- A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*
- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*
- A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*
- A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*
- A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- A Linear Inertial Response Emulation for Variable Speed Wind Turbines. *Azizipannah-Abarghoee, R.*, +, *TPWRS March 2020 1198-1208*
- A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*
- A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H.*, +, *TPWRS July 2020 3262-3265*
- A Synchrophasor Data-Driven Method for Forced Oscillation Localization Under Resonance Conditions. *Huang, T.*, +, *TPWRS Sept. 2020 3927-3939*
- A Topological Sorting Approach to Identify Coherent Cut-Sets Within Power Grids. *Beiranvand, A.*, +, *TPWRS Jan. 2020 721-730*
- A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*
- Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*
- Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*
- Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. *Majumder, S.*, +, *TPWRS March 2020 1231-1241*
- An Improved Aggregated Model of Residential Air Conditioners for FIDVR Studies. *Hajipour, E.*, +, *TPWRS March 2020 909-919*
- An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. *Zhang, Z.*, +, *TPWRS May 2020 1856-1867*
- An Open-Source Protection IED for Research and Education in Multiterminal HVDC Grids. *Jahn, I.*, +, *TPWRS July 2020 2949-2958*

- Closure to Discussion on "Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach". *Wang, Y.*, +, *TPWRS Sept. 2020 4141*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*
- Communication-Free Current Sharing Control Strategy for DC Microgrids and Its Application for AC/DC Hybrid Microgrids. *Kirakosyan, A.*, +, *TPWRS Jan. 2020 140-151*
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*
- Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C.*, +, *TPWRS March 2020 950-961*
- Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L.*, +, *TPWRS March 2020 1646-1649*
- Day-Ahead Scheduling of a Local Energy Community: An Alternating Direction Method of Multipliers Approach. *Lilla, S.*, +, *TPWRS March 2020 1132-1142*
- Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*
- Discussion on "Actuator Placement for Enhanced Grid Dynamic Performance: A Machine Learning Approach". *Doshi, N.P.*, *TPWRS Sept. 2020 4140*
- Distributed and Asynchronous Active Fault Management for Networked Microgrids. *Wan, W.*, +, *TPWRS Sept. 2020 3857-3868*
- Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*
- Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *Mahish, P.*, +, *TPWRS Jan. 2020 362-373*
- Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*
- Dynamic Aggregation of Grid-Tied Three-Phase Inverters. *Purba, V.*, +, *TPWRS March 2020 1520-1530*
- Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*
- Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T.*, +, *TPWRS March 2020 1562-1571*
- Equipment-Level Locating of Low Frequency Oscillating Source in Power System With DFIG Integration Based on Dynamic Energy Flow. *Ma, J.*, +, *TPWRS Sept. 2020 3433-3447*
- Fast Cumulant Method for Probabilistic Power Flow Considering the Non-linear Relationship of Wind Power Generation. *Lin, C.*, +, *TPWRS July 2020 2537-2548*
- Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y.*, +, *TPWRS May 2020 2412-2421*
- Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*
- Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*
- Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*
- Identification of Generalized Short-Circuit Ratio for On-Line Stability Monitoring of Wind Farms. *Huang, L.*, +, *TPWRS July 2020 3282-3285*
- Impact of Current Transients on the Synchronization Stability Assessment of Grid-Feeding Converters. *Chen, J.*, +, *TPWRS Sept. 2020 4131-4134*
- Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*

- Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*
- Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*
- Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*
- Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids. *Mehrabankhomartash, M.*, +, *TPWRS Jan. 2020 177-187*
- Model-Free Fast Frequency Control Support With Energy Storage System. *Liu, W.*, +, *TPWRS July 2020 3078-3086*
- Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*
- Monopolistic and Game-Based Approaches to Transact Energy Flexibility. *Gazafroudi, A.S.*, +, *TPWRS March 2020 1075-1084*
- Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. *Ponocko, J.*, +, *TPWRS May 2020 1822-1833*
- New Perspectives on Stability Analysis of Three-Phase Grid-Connected Inverter Considering System Couplings. *Yu, J.*, +, *TPWRS May 2020 1967-1978*
- New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M.*, +, *TPWRS Jan. 2020 527-538*
- On the Reduction of the Rated Power of Energy Storage System in Wind Farms. *Koiwa, K.*, +, *TPWRS July 2020 2586-2596*
- Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S.*, +, *TPWRS July 2020 3100-3113*
- Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*
- Optimal Mileage Based AGC Dispatch of a GenCo. *Zhang, X.*, +, *TPWRS July 2020 2516-2526*
- Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R.*, +, *TPWRS March 2020 1274-1283*
- Power Market Model in Presence of Strategic Prosumers. *Ramyar, S.*, +, *TPWRS March 2020 898-908*
- Privacy-Preserving Distributed Control Strategy for Optimal Economic Operation in Islanded Reconfigurable Microgrids. *Zhou, Q.*, +, *TPWRS Sept. 2020 3847-3856*
- Quantum Computing for Enhancing Grid Security. *Eskandarpour, R.*, +, *TPWRS Sept. 2020 4135-4137*
- Robust Resiliency-Oriented Operation of Active Distribution Networks Considering Windstorms. *Esfahani, M.*, +, *TPWRS Sept. 2020 3481-3493*
- Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*
- Sensitivity-Based Approach for Assessment of Dynamic Locational Grid Flexibility. *Brahma, D.*, +, *TPWRS Sept. 2020 3470-3480*
- Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W.*, +, *TPWRS July 2020 2609-2618*
- Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*
- Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Vennelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*
- State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. *Chitsazan, M.A.*, +, *TPWRS Jan. 2020 238-248*
- Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*
- The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*
- Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy. *Lin, W.*, +, *TPWRS May 2020 2222-2231*
- Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D.*, +, *TPWRS May 2020 1663-1673*
- Transmission Expansion Planning Test System for AC/DC Hybrid Grid With High Variable Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS July 2020 2597-2608*
- Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J.*, +, *TPWRS March 2020 1340-1350*
- Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*
- Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*
- Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions. *Li, Y.*, +, *TPWRS Jan. 2020 109-118*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*
- Power markets**
- A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y.*, +, *TPWRS July 2020 2493-2505*
- A Bienstock-Zuckerberg-Based Algorithm for Solving a Network-Flow Formulation of the Convex Hull Pricing Problem. *Alvarez, C.*, +, *TPWRS May 2020 2108-2119*
- A Chance-Constrained Stochastic Electricity Market. *Dvorkin, Y.*, *TPWRS July 2020 2993-3003*
- A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction. *Stappers, B.*, +, *TPWRS July 2020 3040-3050*
- A Cluster-Based Operation Model of Aggregated Battery Swapping Stations. *Sepehri, K.*, +, *TPWRS Jan. 2020 249-260*
- A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*
- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A Local Market Mechanism for Physical Storage Rights. *Thomas, D.*, +, *TPWRS July 2020 3087-3099*
- A Multi-Period Market Design for Markets With Intertemporal Constraints. *Zhao, J.*, +, *TPWRS July 2020 3015-3025*
- A P2P-Dominant Distribution System Architecture. *Kim, J.*, +, *TPWRS July 2020 2716-2725*
- A Pool Strategy of Microgrid in Power Distribution Electricity Market. *Wu, Y.*, +, *TPWRS Jan. 2020 3-12*
- A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*
- A Variable Reduction Method for Large-Scale Unit Commitment. *Li, X.*, +, *TPWRS Jan. 2020 261-272*
- Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G.*, +, *TPWRS May 2020 2339-2350*
- Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*

- Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*
- Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*
- Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*
- Effect of Loss of Load Probability Distribution on Operating Reserve Demand Curve Performance in Energy-Only Electricity Market. *Subramanyam, S.A.*, +, *TPWRS July 2020 3297-3300*
- Electricity Pricing Under Constraint Violations. *Fang, X.*, +, *TPWRS July 2020 2794-2803*
- Energy Trading and Generalized Nash Equilibrium in Combined Heat and Power Market. *Wu, C.*, +, *TPWRS Sept. 2020 3378-3387*
- Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. *Chen, S.*, +, *TPWRS May 2020 1956-1966*
- Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*
- Incorporating Non-Convex Operating Characteristics Into Bi-Level Optimization Electricity Market Models. *Ye, Y.*, +, *TPWRS Jan. 2020 163-176*
- Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets. *Chen, S.*, +, *TPWRS July 2020 2736-2747*
- Market Integration of HVDC Lines: Internalizing HVDC Losses in Market Clearing. *Tosatto, A.*, +, *TPWRS Jan. 2020 451-461*
- Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*
- Monopolistic and Game-Based Approaches to Transact Energy Flexibility. *Gazafroudi, A.S.*, +, *TPWRS March 2020 1075-1084*
- Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*
- On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K.*, +, *TPWRS March 2020 840-853*
- On the Minimization of Uplift Payments for Multi-Period Dispatch. *Yang, Z.*, +, *TPWRS May 2020 2479-2482*
- Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. *Chen, S.*, +, *TPWRS Jan. 2020 662-671*
- Optimal Alliance Strategies Among Retailers Under Energy Deviation Settlement Mechanism in China's Forward Electricity Market. *Zhang, Z.*, +, *TPWRS May 2020 2059-2071*
- Optimal Bidding Strategy of Prosumers in Distribution-Level Energy Markets. *Yu, A.*, +, *TPWRS May 2020 1695-1706*
- Optimal Mileage Based AGC Dispatch of a GenCo. *Zhang, X.*, +, *TPWRS July 2020 2516-2526*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part II: Implications. *Schipper, J.*, +, *TPWRS Sept. 2020 3961-3969*
- Power Market Model in Presence of Strategic Prosumers. *Ramyar, S.*, +, *TPWRS March 2020 898-908*
- Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*
- Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*
- Quantifying Market Efficiency Impacts of Aggregated Distributed Energy Resources. *Alshehri, K.*, +, *TPWRS Sept. 2020 4067-4077*
- Resource Adequacy in Electricity Markets With Renewable Energy. *Kwon, J.*, +, *TPWRS Jan. 2020 773-781*
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*
- Scenario-Wise Distributionally Robust Optimization for Collaborative Intermittent Resources and Electric Vehicle Aggregator Bidding Strategy. *Hajebrahimi, A.*, +, *TPWRS Sept. 2020 3706-3718*
- The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C.*, +, *TPWRS Jan. 2020 119-127*
- Towards Balancing Market Integration: Conversion Process for Balancing Energy Offers of Central-Dispatch Systems. *Marneris, I.G.*, +, *TPWRS Jan. 2020 293-303*
- Towards Definition of the Risk Premium Function. *Krecar, N.*, +, *TPWRS March 2020 1085-1098*
- Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*
- Unit Commitment With Gas Network Awareness. *Byeon, G.*, +, *TPWRS March 2020 1327-1339*
- Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. *Bottieau, J.*, +, *TPWRS March 2020 1218-1230*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*
- Power measurement**
- Estimation of Voltage Dependent Load Models Through Power and Frequency Measurements. *Ortega, A.*, +, *TPWRS July 2020 3308-3311*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*
- Power meters**
- Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*
- Power overhead lines**
- Preventive Dispatch for Transmission De-icing. *Jafarishadeh, F.*, +, *TPWRS Sept. 2020 4104-4107*
- Power supply quality**
- A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- An Improved Aggregated Model of Residential Air Conditioners for FIDVR Studies. *Hajipour, E.*, +, *TPWRS March 2020 909-919*
- Modeling the Aggregated Response of Variable Frequency Drives (VFDs) for Power System Dynamic Studies. *Mitra, P.*, +, *TPWRS July 2020 2631-2641*
- Power system analysis computing**
- Fast Security-Constrained Optimal Power Flow Through Low-Impact and Redundancy Screening. *Weinhold, R.*, +, *TPWRS Nov. 2020 4574-4584*
- Impact of High Renewable Penetration on the Power System Operation Mode: A Data-Driven Approach. *Hou, Q.*, +, *TPWRS Jan. 2020 731-741*
- Implementation of Transient Stability Model of Compressed Air Energy Storage Systems. *Calero, I.*, +, *TPWRS Nov. 2020 4734-4744*
- Power system CAD**
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*
- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassej, O.*, +, *TPWRS Jan. 2020 202-214*
- Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q.*, +, *TPWRS Jan. 2020 474-486*
- Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*
- Sliding Framework for Inverter-Based Microgrid Control. *Li, Y.*, +, *TPWRS March 2020 1657-1660*
- Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q.*, +, *TPWRS July 2020 3004-3014*
- Power system control**
- A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. *Ugwuanyi, N.S.*, +, *TPWRS July 2020 3247-3257*
- A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources. *Espinosa, L.A.D.*, +, *TPWRS Sept. 2020 3660-3670*
- A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*

An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance. *Liu, L.*, +, *TPWRS July 2020 2527-2536*

Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*

Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations. *Nazari, M.H.*, +, *TPWRS July 2020 3192-3202*

Critical Clearing Time Sensitivity for Inequality Constrained Systems. *Mishra, C.*, +, *TPWRS March 2020 1572-1583*

Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*

Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*

Distributed Cooperative Scheme for Forced Oscillation Location Identification in Power Systems. *Wu, X.*, +, *TPWRS Jan. 2020 374-384*

Enabling Highly Efficient Eigen-Analysis of Large Delayed Cyber-Physical Power Systems by Partial Spectral Discretization. *Mou, Q.*, +, *TPWRS March 2020 1499-1508*

Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C.*, *TPWRS Sept. 2020 3918-3926*

Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovici, L.D.*, +, *TPWRS March 2020 864-872*

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*

Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*

On the Reduction of the Rated Power of Energy Storage System in Wind Farms. *Koiwa, K.*, +, *TPWRS July 2020 2586-2596*

Optimal Mileage Based AGC Dispatch of a GenCo. *Zhang, X.*, +, *TPWRS July 2020 2516-2526*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*

Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*

Sensitivity-Based Approach for Assessment of Dynamic Locational Grid Flexibility. *Brahma, D.*, +, *TPWRS Sept. 2020 3470-3480*

Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H.*, +, *TPWRS Sept. 2020 3603-3615*

Test Systems for Voltage Stability Studies. *Van Cutsem, T.*, +, *TPWRS Sept. 2020 4078-4087*

The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*

Power system dynamic stability

Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*

Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*

On the Computation of The Locally Closest Bifurcation Point Considering Loading Uncertainties and Reactive Power Limits. *Neves, L.S.*, +, *TPWRS Sept. 2020 3885-3894*

Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H.*, +, *TPWRS Sept. 2020 3682-3694*

Test Systems for Voltage Stability Studies. *Van Cutsem, T.*, +, *TPWRS Sept. 2020 4078-4087*

Power system dynamics

A Library of Second-Order Models for Synchronous Machines. *Ajala, O.*, +, *TPWRS Nov. 2020 4803-4814*

A Parameter Alternating VSG Controller of VSC-MTDC Systems for Low Frequency Oscillation Damping. *Wang, W.*, +, *TPWRS Nov. 2020 4609-4621*

A Robust Dynamic State Estimation Approach Against Model Errors Caused by Load Changes. *Wang, S.*, +, *TPWRS Nov. 2020 4518-4527*

A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. *Azman, S.K.*, +, *TPWRS Nov. 2020 4585-4598*

Electric Power PSS With Ramp-Rejection. *Gibbard, M.J.*, +, *TPWRS Nov. 2020 4495-4504*

Load Frequency Control in Variable Inertia Systems. *Syed, M.H.*, +, *TPWRS Nov. 2020 4904-4907*

Local Frequency-Based Estimation of the Rate of Change of Frequency of the Center of Inertia. *Azizi, S.*, +, *TPWRS Nov. 2020 4948-4951*

Modeling Frequency Dynamics in Unit Commitment With a High Share of Renewable Energy. *Zhang, Z.*, +, *TPWRS Nov. 2020 4383-4395*

Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems. *Badesa, L.*, +, *TPWRS Nov. 2020 4459-4469*

Reexamining the Distributed Slack Bus. *Dhople, S.V.*, +, *TPWRS Nov. 2020 4870-4879*

Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*

Power system economics

Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part II: Practice. *Zhao, F.*, +, *TPWRS Nov. 2020 4888-4895*

Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X.*, +, *TPWRS March 2020 1549-1561*

Fast Security-Constrained Optimal Power Flow Through Low-Impact and Redundancy Screening. *Weinhold, R.*, +, *TPWRS Nov. 2020 4574-4584*

Kriging Assisted Surrogate Evolutionary Computation to Solve Optimal Power Flow Problems. *Deng, Z.*, +, *TPWRS March 2020 831-839*

Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R.*, +, *TPWRS March 2020 1274-1283*

Optimal Reconfiguration of DC Networks. *Altun, T.*, +, *TPWRS Nov. 2020 4272-4284*

Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part II: Implications. *Schipper, J.*, +, *TPWRS Sept. 2020 3961-3969*

Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. *Bottiau, J.*, +, *TPWRS March 2020 1218-1230*

Power system faults

A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. *Mitra, J.*, +, *TPWRS March 2020 1422-1431*

A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*

An Analytical Model for Frequency Nadir Prediction Following a Major Disturbance. *Liu, L.*, +, *TPWRS July 2020 2527-2536*

An Improved Aggregated Model of Residential Air Conditioners for FIDVR Studies. *Hajipour, E.*, +, *TPWRS March 2020 909-919*

An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. *Zhang, Z.*, +, *TPWRS May 2020 1856-1867*

Automated Design of Realistic Contingencies for Big Data Generation. *Bogodorova, T.*, +, *TPWRS Nov. 2020 4968-4971*

Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*

Equipment-Level Locating of Low Frequency Oscillating Source in Power System With DFIG Integration Based on Dynamic Energy Flow. *Ma, J.*, +, *TPWRS Sept. 2020 3433-3447*

Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data. *Wang, W.*, +, *TPWRS May 2020 2483-2486*

Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems. *Bizzarri, F.*, +, *TPWRS March 2020 1284-1293*

Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*

Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures. *Robak, S.*, +, *TPWRS May 2020 2422-2430*

Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*

Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W.*, +, *TPWRS July 2020 2609-2618*

Transfer Learning-Based Power System Online Dynamic Security Assessment: Using One Model to Assess Many Unlearned Faults. *Ren, C.*, +, *TPWRS Jan. 2020 821-824*

Power system harmonics

Separable Estimation of Ambient Noise Spectrum in Synchrophasor Measurements in the Presence of Forced Oscillations. *Khan, M.A.*, +, *TPWRS Jan. 2020 415-423*

Power system interconnection

A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*

A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*

A Sufficient and Necessary Condition of Transient Stability for Multimachine Systems. *Yao, Z.*, *TPWRS Jan. 2020 683-690*

Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*

Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*

Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*

Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*

Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*

Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*

Exhaustive Modal Analysis of Large-Scale Interconnected Power Systems With High Power Electronics Penetration. *Kouki, M.*, +, *TPWRS July 2020 2759-2768*

External System Generator Outage Localization Based on Tie-Line Synchrophasor Measurements. *Dai, Z.*, +, *TPWRS March 2020 1597-1605*

Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C.*, *TPWRS Sept. 2020 3918-3926*

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*

Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S.*, +, *TPWRS July 2020 3100-3113*

Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R.*, +, *TPWRS March 2020 1274-1283*

Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*

Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*

Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy. *Lin, W.*, +, *TPWRS May 2020 2222-2231*

Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*

Power system management

A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamanesh, M.*, +, *TPWRS July 2020 2847-2862*

An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS March 2020 1642-1645*

Hidden Convexities in Decentralized Coordination for the Distribution Networks. *Srikantha, P.*, +, *TPWRS Nov. 2020 4470-4483*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Power system measurement

A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*

A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*

Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H.*, +, *TPWRS Sept. 2020 3400-3409*

Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X.*, +, *TPWRS March 2020 1549-1561*

Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C.*, *TPWRS Sept. 2020 3918-3926*

Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovici, L.D.*, +, *TPWRS March 2020 864-872*

Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TPWRS Jan. 2020 762-772*

Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*

Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. *Zhou, N.*, +, *TPWRS March 2020 1479-1488*

Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS Sept. 2020 4124-4126*

Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*

Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. *Roca, I.L.*, +, *TPWRS Jan. 2020 284-292*

Three-Dimensional Representation of Electrical Circuit Quantities. *Bran-dao, D.I.*, +, *TPWRS July 2020 3258-3261*

Power system parameter estimation

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*

Distributed Cooperative Scheme for Forced Oscillation Location Identification in Power Systems. *Wu, X.*, +, *TPWRS Jan. 2020 374-384*

Real-Time Transient Stability Assessment Using Dynamic Equivalents and Nonlinear Observers. *Iravani, A.*, +, *TPWRS July 2020 2981-2992*

Power system planning

A Sufficient and Necessary Condition of Transient Stability for Multimachine Systems. *Yao, Z.*, *TPWRS Jan. 2020 683-690*

Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *Cao, Y.*, +, *TPWRS Nov. 2020 4908-4911*

Data-Driven Planning for Renewable Distributed Generation Integration. *Fathabad, A.M.*, +, *TPWRS Nov. 2020 4357-4368*

- Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes. *Lagos, T.*, +, *TPWRS March 2020 1411-1421*
- Low-Carbon Electricity Network Transition Considering Retirement of Aging Coal Generators. *Shen, W.*, +, *TPWRS Nov. 2020 4193-4205*
- Multidimensional Scenario Selection for Power Systems With Stochastic Failures. *Mohammadi, F.*, +, *TPWRS Nov. 2020 4528-4538*
- On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning. *Arroyo, J.M.*, +, *TPWRS Nov. 2020 4964-4967*
- Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R.*, +, *TPWRS March 2020 1274-1283*
- Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M.*, +, *TPWRS Jan. 2020 584-593*
- Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach. *Esmaili, M.*, +, *TPWRS Nov. 2020 4396-4407*
- Power system protection**
- Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures. *Robak, S.*, +, *TPWRS May 2020 2422-2430*
- Power system reliability**
- A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. *Mitra, J.*, +, *TPWRS March 2020 1422-1431*
- An Online Search Method for Representative Risky Fault Chains Based on Reinforcement Learning and Knowledge Transfer. *Zhang, Z.*, +, *TPWRS May 2020 1856-1867*
- Analytical Reliability Evaluation of Active Distribution Systems Considering Information Link Failures. *Liu, W.*, +, *TPWRS Nov. 2020 4167-4179*
- Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C.*, +, *TPWRS March 2020 950-961*
- Economic Interpretation of Demand Curves in Multi-Product Electricity Markets – Part II: Practice. *Zhao, F.*, +, *TPWRS Nov. 2020 4888-4895*
- Economic Interpretation of Demand Curves in Multi-Product Electricity Markets—Part I: Theory. *Zhao, F.*, +, *TPWRS Nov. 2020 4880-4887*
- Effect of Loss of Load Probability Distribution on Operating Reserve Demand Curve Performance in Energy-Only Electricity Market. *Subramanyam, S.A.*, +, *TPWRS July 2020 3297-3300*
- External System Generator Outage Localization Based on Tie-Line Synchronism Measurements. *Dai, Z.*, +, *TPWRS March 2020 1597-1605*
- Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data. *Wang, W.*, +, *TPWRS May 2020 2483-2486*
- Fast Security-Constrained Optimal Power Flow Through Low-Impact and Redundancy Screening. *Weinhold, R.*, +, *TPWRS Nov. 2020 4574-4584*
- Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovic, L.D.*, +, *TPWRS March 2020 864-872*
- Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes. *Lagos, T.*, +, *TPWRS March 2020 1411-1421*
- Kriging Assisted Surrogate Evolutionary Computation to Solve Optimal Power Flow Problems. *Deng, Z.*, +, *TPWRS March 2020 831-839*
- Multidimensional Scenario Selection for Power Systems With Stochastic Failures. *Mohammadi, F.*, +, *TPWRS Nov. 2020 4528-4538*
- Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*
- Probabilistic Operational Reliability of Composite Power Systems Considering Multiple Meteorological Factors. *Chen, X.*, +, *TPWRS Jan. 2020 85-97*
- Reliability Evaluation for Integrated Power-Gas Systems With Power-to-Gas and Gas Storages. *Zeng, Z.*, +, *TPWRS Jan. 2020 571-583*
- Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H.*, +, *TPWRS Sept. 2020 3682-3694*
- Power system restoration**
- A Flexible Operation of Distributed Generation in Distribution Networks With Dynamic Boundaries. *Zhao, T.*, +, *TPWRS Sept. 2020 4127-4130*
- Availability Assessment Based Case-Sensitive Power System Restoration Strategy. *Liu, W.*, +, *TPWRS March 2020 1432-1445*
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*
- Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*
- Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F.*, +, *TPWRS May 2020 2190-2199*
- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*
- Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*
- On the Radiality Constraints for Distribution System Restoration and Reconfiguration Problems. *Wang, Y.*, +, *TPWRS July 2020 3294-3296*
- Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*
- Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*
- Power system security**
- A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. *Liu, T.*, +, *TPWRS Sept. 2020 4088-4099*
- A Distributed Framework for Solving and Benchmarking Security Constrained Unit Commitment With Warm Start. *Chen, Y.*, +, *TPWRS Jan. 2020 711-720*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X.*, +, *TPWRS March 2020 1364-1375*
- A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*
- Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*
- Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. *Majumder, S.*, +, *TPWRS March 2020 1231-1241*
- Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y.*, +, *TPWRS July 2020 2769-2782*
- Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F.*, +, *TPWRS Jan. 2020 385-394*
- Availability Assessment Based Case-Sensitive Power System Restoration Strategy. *Liu, W.*, +, *TPWRS March 2020 1432-1445*
- Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*
- Critical Clearing Time Sensitivity for Inequality Constrained Systems. *Mishra, C.*, +, *TPWRS March 2020 1572-1583*
- Data-Driven Screening of Network Constraints for Unit Commitment. *Pineda, S.*, +, *TPWRS Sept. 2020 3695-3705*
- Day-Ahead Contingency-Constrained Unit Commitment With Co-Optimized Post-Contingency Transmission Switching. *Saavedra, R.*, +, *TPWRS Nov. 2020 4408-4420*
- Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*
- Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*
- Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*
- Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T.*, +, *TPWRS March 2020 1562-1571*

- Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X.*, +, *TPWRS March 2020 1549-1561*
- Fast Cascading Outage Screening Based on Deep Convolutional Neural Network and Depth-First Search. *Du, Y.*, +, *TPWRS July 2020 2704-2715*
- Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovici, L.D.*, +, *TPWRS March 2020 864-872*
- From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. *Pan, K.*, +, *TPWRS March 2020 1584-1596*
- Group-Based Line Switching for Enhancing Contingency-Constrained Static Voltage Stability. *Wang, L.*, +, *TPWRS March 2020 1489-1498*
- Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*
- Measuring Systemic Risk of Switching Attacks Based on Cybersecurity Technologies in Substations. *Yamashita, K.*, +, *TPWRS Nov. 2020 4206-4219*
- Modeling Frequency Dynamics in Unit Commitment With a High Share of Renewable Energy. *Zhang, Z.*, +, *TPWRS Nov. 2020 4383-4395*
- OATS: Optimisation and Analysis Toolbox for Power Systems. *Bukhsh, W.*, +, *TPWRS Sept. 2020 3552-3561*
- On The Computation of The Locally Closest Bifurcation Point Considering Loading Uncertainties and Reactive Power Limits. *Neves, L.S.*, +, *TPWRS Sept. 2020 3885-3894*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology. *Schipper, J.*, +, *TPWRS Sept. 2020 3953-3960*
- Power System Security Taxonomy Introducing Two New Approaches. *da Silva Neto, C.A.*, +, *TPWRS Jan. 2020 487-495*
- Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*
- Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach. *Mak, T.W.K.*, +, *TPWRS March 2020 1627-1637*
- Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*
- Quantum Computing for Enhancing Grid Security. *Eskandarpour, R.*, +, *TPWRS Sept. 2020 4135-4137*
- Security-Constrained ACOFF: Incorporating Worst Contingencies and Discrete Controllers. *Wu, X.*, +, *TPWRS May 2020 1936-1945*
- Temporal Decomposition for Security-Constrained Unit Commitment. *Safdarian, F.*, +, *TPWRS May 2020 1834-1845*
- Test Systems for Voltage Stability Studies. *Van Cutsem, T.*, +, *TPWRS Sept. 2020 4078-4087*
- Transfer Learning-Based Power System Online Dynamic Security Assessment: Using One Model to Assess Many Unlearned Faults. *Ren, C.*, +, *TPWRS Jan. 2020 821-824*
- Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J.*, +, *TPWRS March 2020 1340-1350*
- Unification Scheme for Managing Master Controller Failures in Networked Microgrids. *Zhou, Q.*, +, *TPWRS July 2020 3004-3014*

Power system simulation

- Beyond Phasors: Modeling of Power System Signals Using the Hilbert Transform. *Derviskadic, A.*, +, *TPWRS July 2020 2971-2980*
- Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*
- Estimation of Parameters of a Dynamic Generator Model From Modal PMU Measurements. *Gorbinov, A.*, +, *TPWRS Jan. 2020 53-62*
- Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*
- Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems. *Bizzarri, F.*, +, *TPWRS March 2020 1284-1293*

- Modeling the Aggregated Response of Variable Frequency Drives (VFDs) for Power System Dynamic Studies. *Mitra, P.*, +, *TPWRS July 2020 2631-2641*
- On the Initialization of Transient Stability Models of Power Systems With the Inclusion of Stochastic Processes. *Jonsdottir, G.M.*, +, *TPWRS Sept. 2020 4112-4115*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*
- Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. *Zhou, N.*, +, *TPWRS March 2020 1479-1488*
- Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. *Jin, Y.*, +, *TPWRS May 2020 1769-1782*
- Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*
- Solving Power System Differential Algebraic Equations Using Differential Transformation. *Liu, Y.*, +, *TPWRS May 2020 2289-2299*
- Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 539-550*

Power system stability

- A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*
- A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M.*, +, *TPWRS Jan. 2020 594-604*
- A Flexible Control Strategy to Prevent Sending-End Power System From Transient Instability Under HVDC Repetitive Commutation Failures. *Wang, W.*, +, *TPWRS Nov. 2020 4445-4458*
- A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*
- A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*
- A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. *Ugwuanyi, N.S.*, +, *TPWRS July 2020 3247-3257*
- A Parameter Alternating VSG Controller of VSC-MTDC Systems for Low Frequency Oscillation Damping. *Wang, W.*, +, *TPWRS Nov. 2020 4609-4621*
- A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*
- A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*
- A Robust H_∞ Multivariable Stabilizer Design for Droop Based Autonomous AC Microgrid. *Sharma, R.K.*, +, *TPWRS Nov. 2020 4369-4382*
- A Scheme to Mitigate Generation Trip Events by Ancillary Services Considering Minimal Actions of UFLS. *Lai, C.*, +, *TPWRS Nov. 2020 4815-4823*
- A Synchrophasor Data-Driven Method for Forced Oscillation Localization Under Resonance Conditions. *Huang, T.*, +, *TPWRS Sept. 2020 3927-3939*
- A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. *Azman, S.K.*, +, *TPWRS Nov. 2020 4585-4598*
- Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*
- An Efficient Method for Computing Exact Delay-Margins of Large-Scale Power Systems. *Li, C.*, +, *TPWRS Nov. 2020 4924-4927*
- Characterization of Subsynchronous Oscillation with Wind Farms Using Describing Function and Generalized Nyquist Criterion. *Xu, Y.*, +, *TPWRS July 2020 2783-2793*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations. *Nazari, M.H.*, +, *TPWRS July 2020 3192-3202*

- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*
- Continuous Under-Frequency Load Shedding Scheme for Power System Adaptive Frequency Control. *Li, C.*, +, *TPWRS March 2020 950-961*
- Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*
- Correction to "A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator" [Jan 20 594-604]. *Li, M.*, +, *TPWRS July 2020 3316*
- Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes. *Jahromi, A.A.*, +, *TPWRS Jan. 2020 440-450*
- Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*
- Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*
- Distributed Cooperative Scheme for Forced Oscillation Location Identification in Power Systems. *Wu, X.*, +, *TPWRS Jan. 2020 374-384*
- Distributed Stability Conditions for Power Systems With Heterogeneous Nonlinear Bus Dynamics. *Yang, P.*, +, *TPWRS May 2020 2313-2324*
- Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*
- Electric Power PSS With Ramp-Rejection. *Gibbard, M.J.*, +, *TPWRS Nov. 2020 4495-4504*
- Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*
- Equipment-Level Locating of Low Frequency Oscillating Source in Power System With DFIG Integration Based on Dynamic Energy Flow. *Ma, J.*, +, *TPWRS Sept. 2020 3433-3447*
- Event-Triggered Load Frequency Control via Switching Approach. *Saxena, S.*, +, *TPWRS Nov. 2020 4484-4494*
- Exhaustive Modal Analysis of Large-Scale Interconnected Power Systems With High Power Electronics Penetration. *Kouki, M.*, +, *TPWRS July 2020 2759-2768*
- Fixed Low-Order Wide-Area Damping Controller Considering Time Delays and Power System Operation Uncertainties. *Bento, M.E.C.*, *TPWRS Sept. 2020 3918-3926*
- Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. *Ling, Y.*, +, *TPWRS Nov. 2020 4263-4271*
- Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovici, L.D.*, +, *TPWRS March 2020 864-872*
- Group-Based Line Switching for Enhancing Contingency-Constrained Static Voltage Stability. *Wang, L.*, +, *TPWRS March 2020 1489-1498*
- Identification of Generalized Short-Circuit Ratio for On-Line Stability Monitoring of Wind Farms. *Huang, L.*, +, *TPWRS July 2020 3282-3285*
- Implementation of Transient Stability Model of Compressed Air Energy Storage Systems. *Calero, I.*, +, *TPWRS Nov. 2020 4734-4744*
- Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*
- Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment. *Bharati, A.K.*, +, *TPWRS May 2020 2072-2081*
- Load Frequency Control in Variable Inertia Systems. *Syed, M.H.*, +, *TPWRS Nov. 2020 4904-4907*
- Microgrid Stability Definitions, Analysis, and Examples. *Farrokhbadi, M.*, +, *TPWRS Jan. 2020 13-29*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*
- Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids. *Mehrabankhomartash, M.*, +, *TPWRS Jan. 2020 177-187*
- Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*
- Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. *Ponocko, J.*, +, *TPWRS May 2020 1822-1833*
- On The Computation of The Locally Closest Bifurcation Point Considering Loading Uncertainties and Reactive Power Limits. *Neves, L.S.*, +, *TPWRS Sept. 2020 3885-3894*
- Online Estimation of System Inertia in a Power Network Utilizing Synchronophor Measurements. *Panda, R.K.*, +, *TPWRS July 2020 3122-3132*
- Online Preventive Control Method for Static Voltage Stability of Large Power Grids. *Yun, Z.*, +, *TPWRS Nov. 2020 4689-4698*
- Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View. *Golpira, H.*, +, *TPWRS Nov. 2020 4824-4835*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*
- PLL and Additional Frequency Control Constituting an Adaptive Synchronization Mechanism for VSCs. *Zhang, M.*, +, *TPWRS Nov. 2020 4920-4923*
- Power System Security Taxonomy Introducing Two New Approaches. *da Silva Neto, C.A.*, +, *TPWRS Jan. 2020 487-495*
- Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*
- Reachable Eigenanalysis. *Zhou, Y.*, +, *TPWRS Nov. 2020 4936-4939*
- Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*
- Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. *Wang, Y.*, +, *TPWRS Jan. 2020 691-702*
- Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. *Liu, S.*, +, *TPWRS Sept. 2020 3574-3587*
- Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*
- Sensitivity-Based Approach for Assessment of Dynamic Locational Grid Flexibility. *Brahma, D.*, +, *TPWRS Sept. 2020 3470-3480*
- Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W.*, +, *TPWRS July 2020 2609-2618*
- Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*
- Stability Analysis on Torsional Interactions of Turbine-Generator Connected With DFIG-WECS Using Admittance Model. *Velpula, S.*, +, *TPWRS Nov. 2020 4745-4755*
- Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Venelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*
- Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*
- Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*
- Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes. *Shim, J.W.*, +, *TPWRS Nov. 2020 4655-4665*
- Strength Evaluation of Multi-Infeed LCC-HVDC Systems Based on the Virtual Impedance Concept. *Xiao, H.*, +, *TPWRS July 2020 2863-2875*
- The Influence of Network Factors on Frequency Stability. *Fradley, J.*, +, *TPWRS July 2020 2826-2834*
- Theory and Implementation of Fractional Order Controllers for Power System Applications. *Tzounas, G.*, +, *TPWRS Nov. 2020 4622-4631*

Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach. *Esmaili, M.*, +, *TPWRS Nov. 2020 4396-4407*

Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions. *Li, Y.*, +, *TPWRS Jan. 2020 109-118*

Power system state estimation

An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS March 2020 1642-1645*

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

Application of Detectability Analysis for Power System Dynamic State Estimation. *Zhou, N.*, +, *TPWRS July 2020 3274-3277*

Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs. *Zhao, J.*, +, *TPWRS May 2020 2443-2451*

Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. *Chakhchoukh, Y.*, +, *TPWRS March 2020 1188-1197*

Enhanced Modelling Framework for Equivalent Circuit-Based Power System State Estimation. *Jovicic, A.*, +, *TPWRS Sept. 2020 3790-3799*

Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X.*, +, *TPWRS March 2020 1549-1561*

Fast Nonconvex SDP Solvers for Large-Scale Power System State Estimation. *Lan, Y.*, +, *TPWRS May 2020 2412-2421*

Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*

Interval State Estimation With Uncertainty of Distributed Generation and Line Parameters in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TPWRS Jan. 2020 762-772*

Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*

Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing. *Dobbe, R.*, +, *TPWRS May 2020 1674-1683*

Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A.*, +, *TPWRS May 2020 1923-1935*

Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. *Wang, Y.*, +, *TPWRS Jan. 2020 691-702*

Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. *Roca, I.L.*, +, *TPWRS Jan. 2020 284-292*

State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. *Chitsazan, M.A.*, +, *TPWRS Jan. 2020 238-248*

Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. *Zhang, Y.*, +, *TPWRS May 2020 2471-2474*

Power system transient stability

A Dynamic Theory-Based Method for Computing Unstable Equilibrium Points of Power Systems. *Owusu-Mireku, R.*, +, *TPWRS May 2020 1946-1955*

A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. *Mitra, J.*, +, *TPWRS March 2020 1422-1431*

A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. *Ugwuanyi, N.S.*, +, *TPWRS July 2020 3247-3257*

A New Fully Parallel BBDF Method in Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 304-314*

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*

A Sufficient and Necessary Condition of Transient Stability for Multimachine Systems. *Yao, Z.*, *TPWRS Jan. 2020 683-690*

An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*

Critical Clearing Time Sensitivity for Inequality Constrained Systems. *Mishra, C.*, +, *TPWRS March 2020 1572-1583*

Evaluating Measurement-Based Dynamic Load Modeling Techniques and Metrics. *Cicilio, P.*, +, *TPWRS May 2020 1805-1811*

Evaluating the Influence of Momentary Cessation Mode in Inverter-Based Distributed Generators on Power System Transient Stability. *Shin, H.*, +, *TPWRS March 2020 1618-1626*

Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*

Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems. *Bizzarri, F.*, +, *TPWRS March 2020 1284-1293*

Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*

Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures. *Robak, S.*, +, *TPWRS May 2020 2422-2430*

Individual Functions Method for Power System Transient Stability Assessment. *Al Araifi, S.M.*, +, *TPWRS March 2020 1264-1273*

On the Initialization of Transient Stability Models of Power Systems With the Inclusion of Stochastic Processes. *Jonsdottir, G.M.*, +, *TPWRS Sept. 2020 4112-4115*

Online Coherency Based Adaptive Wide Area Damping Controller for Transient Stability Enhancement. *Ghosh, S.*, +, *TPWRS July 2020 3100-3113*

PMU Signals Responses-Based RAS for Instability Mitigation Through On-The Fly Identification and Shedding of the Run-Away Generators. *Paul, A.*, +, *TPWRS May 2020 1707-1717*

Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*

Real-Time Transient Stability Assessment Using Dynamic Equivalents and Nonlinear Observers. *Iravani, A.*, +, *TPWRS July 2020 2981-2992*

Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*

Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 539-550*

Power system transients

A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*

A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. *Rousis, A.O.*, +, *TPWRS Jan. 2020 227-237*

Beyond Phasors: Modeling of Power System Signals Using the Hilbert Transform. *Derviskadic, A.*, +, *TPWRS July 2020 2971-2980*

Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance. *Xia, Y.*, +, *TPWRS May 2020 2120-2132*

Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. *Strezoski, L.V.*, +, *TPWRS March 2020 1209-1217*

Power systems

A Multi-Agent Deep Reinforcement Learning Method for Cooperative Load Frequency Control of a Multi-Area Power System. *Yan, Z.*, +, *TPWRS Nov. 2020 4599-4608*

A Passivity Interpretation of Energy-Based Forced Oscillation Source Location Methods. *Chevalier, S.*, +, *TPWRS Sept. 2020 3588-3602*

Inverse Equilibrium Analysis of Oligopolistic Electricity Markets. *Risanger, S.*, +, *TPWRS Nov. 2020 4159-4166*

Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. *Park, B.*, +, *TPWRS Nov. 2020 4324-4334*

Power transformers

Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*

Time-Process Power Flow Calculation Considering Thermal Behavior of Transmission Components. *Zhou, S.*, +, *TPWRS Nov. 2020 4232-4250*

Power transmission control

A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*

- A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H.*, +, *TPWRS July 2020 3262-3265*
- A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*
- Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F.*, +, *TPWRS Jan. 2020 385-394*
- Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*
- Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. *Chakhchoukh, Y.*, +, *TPWRS March 2020 1188-1197*
- Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing. *Wang, Z.*, +, *TPWRS May 2020 1812-1821*
- Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*
- Economic-Driven Frequency Regulation in Multi-Terminal HVDC Systems: A Cooperative Distributed Approach. *Jia, Y.*, +, *TPWRS May 2020 2245-2255*
- Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment. *Bharati, A.K.*, +, *TPWRS May 2020 2072-2081*
- Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids. *Mehrabankhomartash, M.*, +, *TPWRS Jan. 2020 177-187*
- Multi-Objective Demand Side Management at Distribution Network Level in Support of Transmission Network Operation. *Ponocko, J.*, +, *TPWRS May 2020 1822-1833*
- Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Vennelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*
- Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*
- State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. *Chitsazan, M.A.*, +, *TPWRS Jan. 2020 238-248*
- Transmission-Line Switching for Load Shed Prevention via an Accelerated Linear Programming Approximation of AC Power Flows. *Brown, W.E.*, +, *TPWRS July 2020 2575-2585*

Power transmission economics

- A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*
- A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*
- A Search Space Reduction Method for Transmission Expansion Planning Using an Iterative Refinement of the DC Load Flow Model. *Ploussard, Q.*, +, *TPWRS Jan. 2020 152-162*
- Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning. *Bukenberger, J.P.*, +, *TPWRS March 2020 1099-1108*
- Approximating Economic Dispatch by Linearizing Transmission Losses. *Garcia, M.*, +, *TPWRS March 2020 1009-1022*
- Incorporating Massive Scenarios in Transmission Expansion Planning With High Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS March 2020 1061-1074*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*
- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*

Power transmission faults

- A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*
- An Open-Source Protection IED for Research and Education in Multiterminal HVDC Grids. *Jahn, I.*, +, *TPWRS July 2020 2949-2958*

Power transmission lines

- A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. *Pourbabak, H.*, +, *TPWRS Sept. 2020 3506-3515*
- A Markovian Influence Graph Formed From Utility Line Outage Data to Mitigate Large Cascades. *Zhou, K.*, +, *TPWRS July 2020 3224-3235*
- Day-Ahead Contingency-Constrained Unit Commitment With Co-Optimized Post-Contingency Transmission Switching. *Saavedra, R.*, +, *TPWRS Nov. 2020 4408-4420*
- Fast Screen of Redundant Transmission Constraints in Line Contingency-Constrained Dispatch. *Guo, Z.*, +, *TPWRS July 2020 3305-3307*
- Group-Based Line Switching for Enhancing Contingency-Constrained Static Voltage Stability. *Wang, L.*, +, *TPWRS March 2020 1489-1498*
- Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids. *Mehrabankhomartash, M.*, +, *TPWRS Jan. 2020 177-187*
- Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*
- Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M.*, +, *TPWRS Jan. 2020 584-593*
- Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*
- Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy. *Lin, W.*, +, *TPWRS May 2020 2222-2231*
- Transmission-Line Switching for Load Shed Prevention via an Accelerated Linear Programming Approximation of AC Power Flows. *Brown, W.E.*, +, *TPWRS July 2020 2575-2585*

Power transmission planning

- A Search Space Reduction Method for Transmission Expansion Planning Using an Iterative Refinement of the DC Load Flow Model. *Ploussard, Q.*, +, *TPWRS Jan. 2020 152-162*
- Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning. *Bukenberger, J.P.*, +, *TPWRS March 2020 1099-1108*
- Distributionally Robust Transmission Expansion Planning: A Multi-Scale Uncertainty Approach. *Velloso, A.*, +, *TPWRS Sept. 2020 3353-3365*
- Incorporating Massive Scenarios in Transmission Expansion Planning With High Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS March 2020 1061-1074*
- Multivariate Quantile Regression for Short-Term Probabilistic Load Forecasting. *Bracale, A.*, +, *TPWRS Jan. 2020 628-638*
- Transmission Expansion Planning Test System for AC/DC Hybrid Grid With High Variable Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS July 2020 2597-2608*

Power transmission protection

- An Open-Source Protection IED for Research and Education in Multiterminal HVDC Grids. *Jahn, I.*, +, *TPWRS July 2020 2949-2958*
- Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*

Power transmission reliability

- A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*
- A Markovian Influence Graph Formed From Utility Line Outage Data to Mitigate Large Cascades. *Zhou, K.*, +, *TPWRS July 2020 3224-3235*
- Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning. *Bukenberger, J.P.*, +, *TPWRS March 2020 1099-1108*
- Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F.*, +, *TPWRS Jan. 2020 385-394*
- Availability Assessment Based Case-Sensitive Power System Restoration Strategy. *Liu, W.*, +, *TPWRS March 2020 1432-1445*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*
- Multivariate Quantile Regression for Short-Term Probabilistic Load Forecasting. *Bracale, A.*, +, *TPWRS Jan. 2020 628-638*

Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*

Resilience Constrained Day-Ahead Unit Commitment Under Extreme Weather Events. *Trakas, D.N.*, +, *TPWRS March 2020 1242-1253*

Power utilization

An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H.*, +, *TPWRS Sept. 2020 3400-3409*

Predictive control

A Flexible Control Strategy to Prevent Sending-End Power System From Transient Instability Under HVDC Repetitive Commutation Failures. *Wang, W.*, +, *TPWRS Nov. 2020 4445-4458*

Arbitrage With Power Factor Correction Using Energy Storage. *Hashmi, M.U.*, +, *TPWRS July 2020 2693-2703*

Economic-Driven Frequency Regulation in Multi-Terminal HVDC Systems: A Cooperative Distributed Approach. *Jia, Y.*, +, *TPWRS May 2020 2245-2255*

Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T.*, +, *TPWRS March 2020 1562-1571*

Explicit MPC Based on the Galerkin Method for AGC Considering Volatile Generations. *Qiu, Y.*, +, *TPWRS Jan. 2020 462-473*

Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids. *Mehrabankhomartash, M.*, +, *TPWRS Jan. 2020 177-187*

Model-Free Fast Frequency Control Support With Energy Storage System. *Liu, W.*, +, *TPWRS July 2020 3078-3086*

Optimal Mileage Based AGC Dispatch of a GenCo. *Zhang, X.*, +, *TPWRS July 2020 2516-2526*

Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*

Stochastic Online Generation Control of Cascaded Run-of-the-River Hydropower for Mitigating Solar Power Volatility. *Qiu, Y.*, +, *TPWRS Nov. 2020 4709-4722*

Predictor-corrector methods

Loss Minimization With Optimal Power Dispatch in Multi-Frequency HVac Power Systems. *Nguyen, Q.*, +, *TPWRS May 2020 1979-1989*

Pricing

A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y.*, +, *TPWRS July 2020 2493-2505*

A Bienstock-Zuckerberg-Based Algorithm for Solving a Network-Flow Formulation of the Convex Hull Pricing Problem. *Alvarez, C.*, +, *TPWRS May 2020 2108-2119*

A Chance-Constrained Stochastic Electricity Market. *Dvorkin, Y.*, *TPWRS July 2020 2993-3003*

A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction. *Stappers, B.*, +, *TPWRS July 2020 3040-3050*

A Cluster-Based Operation Model of Aggregated Battery Swapping Stations. *Sepetanc, K.*, +, *TPWRS Jan. 2020 249-260*

A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*

A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*

A Multi-Period Market Design for Markets With Intertemporal Constraints. *Zhao, J.*, +, *TPWRS July 2020 3015-3025*

A P2P-Dominant Distribution System Architecture. *Kim, J.*, +, *TPWRS July 2020 2716-2725*

A Pool Strategy of Microgrid in Power Distribution Electricity Market. *Wu, Y.*, +, *TPWRS Jan. 2020 3-12*

A Transactive Energy Framework for Coordinated Energy Management of Networked Microgrids With Distributionally Robust Optimization. *Liu, Z.*, +, *TPWRS Jan. 2020 395-404*

A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*

Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G.*, +, *TPWRS May 2020 2339-2350*

An Extended Integral Unit Commitment Formulation and an Iterative Algorithm for Convex Hull Pricing. *Yu, Y.*, +, *TPWRS Nov. 2020 4335-4346*

Arbitrage With Power Factor Correction Using Energy Storage. *Hashmi, M.U.*, +, *TPWRS July 2020 2693-2703*

Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*

Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*

Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*

Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*

Economic Interpretation of Demand Curves in Multi-Product Electricity Markets—Part I: Theory. *Zhao, F.*, +, *TPWRS Nov. 2020 4880-4887*

Effect of Loss of Load Probability Distribution on Operating Reserve Demand Curve Performance in Energy-Only Electricity Market. *Subramanyam, S.A.*, +, *TPWRS July 2020 3297-3300*

Electricity Pricing Under Constraint Violations. *Fang, X.*, +, *TPWRS July 2020 2794-2803*

Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. *Chen, S.*, +, *TPWRS May 2020 1956-1966*

Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*

Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*

Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*

On the Minimization of Uplift Payments for Multi-Period Dispatch. *Yang, Z.*, +, *TPWRS May 2020 2479-2482*

Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. *Chen, S.*, +, *TPWRS Jan. 2020 662-671*

Optimal Flexibility Dispatch Problem Using Second-Order Cone Relaxation of AC Power Flows. *Torbaghan, S.S.*, +, *TPWRS Jan. 2020 98-108*

Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology. *Schipper, J.*, +, *TPWRS Sept. 2020 3953-3960*

Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part II: Implications. *Schipper, J.*, +, *TPWRS Sept. 2020 3961-3969*

Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*

Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*

Towards Definition of the Risk Premium Function. *Krekar, N.*, +, *TPWRS March 2020 1085-1098*

Unit Commitment With Gas Network Awareness. *Byeon, G.*, +, *TPWRS March 2020 1327-1339*

Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. *Bottieau, J.*, +, *TPWRS March 2020 1218-1230*

Principal component analysis

A Data-Based Learning and Control Method for Long-Term Voltage Stability. *Cai, H.*, +, *TPWRS July 2020 3203-3212*

A Synchronphasor Data-Driven Method for Forced Oscillation Localization Under Resonance Conditions. *Huang, T.*, +, *TPWRS Sept. 2020 3927-3939*

Data-Driven Planning for Renewable Distributed Generation Integration. *Fathabad, A.M.*, +, *TPWRS Nov. 2020 4357-4368*

Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption. *Chatterjee, K.*, +, *TPWRS Nov. 2020 4723-4733*

Probabilistic logic

A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. *Xu, Y.*, +, *TPWRS Nov. 2020 4756-4768*

A Novel Probabilistic Method for Energy Loss Estimation Using Minimal Line Current Information. *Wu, H.*, +, *TPWRS Nov. 2020 4928-4931*

Correction to “Convex Relaxations of Probabilistic AC Optimal Power Flow for Interconnected AC and HVDC Grids” [Jul 19 2706-2718]. *Venzke, A.*, +, *TPWRS Sept. 2020 4143*

Optimal Power Flow Models With Probabilistic Guarantees: A Boolean Approach. *Lejeune, M.A.*, +, *TPWRS Nov. 2020 4932-4935*

Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. *Park, B.*, +, *TPWRS Nov. 2020 4324-4334*

Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes. *Shim, J.W.*, +, *TPWRS Nov. 2020 4655-4665*

Probability

A Hierarchical Method for Robust SCUC of Multi-Area Power Systems With Novel Uncertainty Sets. *Zheng, X.*, +, *TPWRS March 2020 1364-1375*

A Linear Programming Approximation of Distributionally Robust Chance-Constrained Dispatch With Wasserstein Distance. *Zhou, A.*, +, *TPWRS Sept. 2020 3366-3377*

A Markovian Influence Graph Formed From Utility Line Outage Data to Mitigate Large Cascades. *Zhou, K.*, +, *TPWRS July 2020 3224-3235*

Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y.*, +, *TPWRS July 2020 2769-2782*

Assessment of Spare Parts for System Components Using a Markov Model. *Hamoud, G.A.*, +, *TPWRS July 2020 3114-3121*

Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*

Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F.*, +, *TPWRS July 2020 2888-2903*

Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*

Distributionally Robust Transmission Expansion Planning: A Multi-Scale Uncertainty Approach. *Velloso, A.*, +, *TPWRS Sept. 2020 3353-3365*

Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*

Fast Cumulant Method for Probabilistic Power Flow Considering the Non-linear Relationship of Wind Power Generation. *Lin, C.*, +, *TPWRS July 2020 2537-2548*

Identifying Optimal Portfolios of Resilient Network Investments Against Natural Hazards, With Applications to Earthquakes. *Lagos, T.*, +, *TPWRS March 2020 1411-1421*

Improved Deep Mixture Density Network for Regional Wind Power Probabilistic Forecasting. *Zhang, H.*, +, *TPWRS July 2020 2549-2560*

Multivariate Quantile Regression for Short-Term Probabilistic Load Forecasting. *Bracale, A.*, +, *TPWRS Jan. 2020 628-638*

On the Initialization of Transient Stability Models of Power Systems With the Inclusion of Stochastic Processes. *Jonsdottir, G.M.*, +, *TPWRS Sept. 2020 4112-4115*

Optimal Nonparametric Prediction Intervals of Electricity Load. *Zhao, C.*, +, *TPWRS May 2020 2467-2470*

Power System Security Taxonomy Introducing Two New Approaches. *da Silva Neto, C.A.*, +, *TPWRS Jan. 2020 487-495*

Probabilistic Modeling for Optimization of Resource Mix With Variable Generation and Storage. *Gao, W.*, +, *TPWRS Sept. 2020 4036-4045*

Probabilistic Operational Reliability of Composite Power Systems Considering Multiple Meteorological Factors. *Chen, X.*, +, *TPWRS Jan. 2020 85-97*

Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. *Jin, Y.*, +, *TPWRS May 2020 1769-1782*

Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*

Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*

Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H.*, +, *TPWRS Sept. 2020 3682-3694*

Robust Resiliency-Oriented Operation of Active Distribution Networks Considering Windstorms. *Esfahani, M.*, +, *TPWRS Sept. 2020 3481-3493*

Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*

Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D.*, +, *TPWRS May 2020 1663-1673*

Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

Very-Short-Term Probabilistic Forecasting for a Risk-Aware Participation in the Single Price Imbalance Settlement. *Bottiau, J.*, +, *TPWRS March 2020 1218-1230*

Probability density function

A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. *Xu, Y.*, +, *TPWRS Nov. 2020 4756-4768*

A Novel Probabilistic Method for Energy Loss Estimation Using Minimal Line Current Information. *Wu, H.*, +, *TPWRS Nov. 2020 4928-4931*

Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *Cao, Y.*, +, *TPWRS Nov. 2020 4908-4911*

Probability distribution

Automated Design of Realistic Contingencies for Big Data Generation. *Bogodorova, T.*, +, *TPWRS Nov. 2020 4968-4971*

Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. *Park, B.*, +, *TPWRS Nov. 2020 4324-4334*

Profitability

A Bi-Level Optimization Formulation of Priority Service Pricing. *Mou, Y.*, +, *TPWRS July 2020 2493-2505*

A Local Market Mechanism for Physical Storage Rights. *Thomas, D.*, +, *TPWRS July 2020 3087-3099*

Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G.*, +, *TPWRS May 2020 2339-2350*

Direct Energy Trading of Microgrids in Distribution Energy Market. *Kim, H.*, +, *TPWRS Jan. 2020 639-651*

Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. *Chen, S.*, +, *TPWRS May 2020 1956-1966*

Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets. *Chen, S.*, +, *TPWRS July 2020 2736-2747*

Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*

Profitable Emissions-Reducing Energy Storage. *Olsen, D.J.*, +, *TPWRS March 2020 1509-1519*

Quantifying Market Efficiency Impacts of Aggregated Distributed Energy Resources. *Alshehri, K.*, +, *TPWRS Sept. 2020 4067-4077*

Programmable controllers

A Remote and On-Site Educational Tool to Improve the Learning Process of Electrical Power Distribution and Utilization Systems. *Cordeiro, A.*, +, *TPWRS May 2020 2144-2154*

Protocols

Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Q

Quadratic programming

A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*

Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y.*, +, *TPWRS July 2020 2769-2782*

Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*

Explicit MPC Based on the Galerkin Method for AGC Considering Volatile Generations. *Qiu, Y.*, +, *TPWRS Jan. 2020 462-473*

Feasible Path Identification in Optimal Power Flow With Sequential Convex Restriction. *Lee, D.*, +, *TPWRS Sept. 2020 3648-3659*

Quality of service

A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources. *Espinosa, L.A.D.*, +, *TPWRS Sept. 2020 3660-3670*

Quantum computing

Quantum Computing for Enhancing Grid Security. *Eskandarpour, R.*, +, *TPWRS Sept. 2020 4135-4137*

R

Railway electrification

Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters. *Hao, F.*, +, *TPWRS July 2020 2726-2735*

Railways

Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S.*, +, *TPWRS July 2020 3026-3039*

Random processes

Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*

Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. *Zhang, Y.*, +, *TPWRS May 2020 2471-2474*

Reachability analysis

Reachable Power Flow. *Zhou, Y.*, +, *TPWRS July 2020 3290-3293*

Reactive power

A GIC Estimator for Electric Grid Monitoring During Geomagnetic Disturbances. *Klauber, C.*, +, *TPWRS Nov. 2020 4847-4855*

Closure to Discussion on “Decentralized Optimal Frequency Control in Autonomous Microgrids”. *Khayat, Y.*, +, *TPWRS Nov. 2020 4973*

Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation. *Lyu, X.*, +, *TPWRS Nov. 2020 4956-4959*

Data-Driven Planning for Renewable Distributed Generation Integration. *Fathabad, A.M.*, +, *TPWRS Nov. 2020 4357-4368*

Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent. *Guo, Y.*, +, *TPWRS Nov. 2020 4505-4517*

Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. *Ruan, H.*, +, *TPWRS Nov. 2020 4220-4231*

Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*

Estimating the Robust P-Q Capability of a Technical Virtual Power Plant Under Uncertainties. *Tan, Z.*, +, *TPWRS Nov. 2020 4285-4296*

Estimation of Voltage Dependent Load Models Through Power and Frequency Measurements. *Ortega, A.*, +, *TPWRS July 2020 3308-3311*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Load Flow-Based Method for Nontechnical Electrical Loss Detection and Location in Distribution Systems Using Smart Meters. *Ferreira, T.S.D.*, +, *TPWRS Sept. 2020 3671-3681*

Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS Nov. 2020 4944-4947*

Optimal Distributed Feedback Voltage Control Under Limited Reactive Power. *Qu, G.*, +, *TPWRS Jan. 2020 315-331*

Power Flow Approach Based on the S-Iteration Process. *Tostado-Veliz, M.*, +, *TPWRS Nov. 2020 4148-4158*

Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*

Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*

Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TPWRS Nov. 2020 4836-4846*

Uncertainty Analysis Using Fuzzy Transformation Method: An Application in Power-Flow Studies. *Aghili, S.J.*, +, *TPWRS Jan. 2020 42-52*

Reactive power control

A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*

A New Synchronous DG Model for Unbalanced Multiphase Power Flow Studies. *Beneteli, T.A.P.*, +, *TPWRS Jan. 2020 803-813*

A Simple Control Scheme for Improving Reactive Power Sharing in Islanded Microgrid. *Gupta, Y.*, +, *TPWRS July 2020 3158-3169*

Arbitrage With Power Factor Correction Using Energy Storage. *Hashmi, M.U.*, +, *TPWRS July 2020 2693-2703*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment. *Bharati, A.K.*, +, *TPWRS May 2020 2072-2081*

Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. *Varma, R.K.*, +, *TPWRS Nov. 2020 4251-4262*

Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*

Optimal Distributed Feedback Voltage Control Under Limited Reactive Power. *Qu, G.*, +, *TPWRS Jan. 2020 315-331*

PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M.*, +, *TPWRS May 2020 2268-2278*

Power System Loss Divider. *Al-Digs, A.*, +, *TPWRS July 2020 3286-3289*

Real-time systems

A Bayesian Approach to Real-Time Dynamic Parameter Estimation Using Phasor Measurement Unit Measurement. *Xu, Y.*, +, *TPWRS March 2020 1109-1119*

A GIC Estimator for Electric Grid Monitoring During Geomagnetic Disturbances. *Klauber, C.*, +, *TPWRS Nov. 2020 4847-4855*

Closure to Discussion on “A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation”. *Song, Y.*, +, *TPWRS Nov. 2020 4975-4976*

Discussion on “A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation”. *Al-Ismail, F.S.*, *TPWRS Nov. 2020 4974*

Impact of Synchrophasor Estimation Algorithms in ROCOF-Based Under-Frequency Load-Shedding. *Zuo, Y.*, +, *TPWRS March 2020 1305-1316*

Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*

Optimal DC Voltage and Current Control of an LCC HVDC System to Improve Real-Time Frequency Regulation in Rectifier- and Inverter-Side Grids. *Kwon, D.*, +, *TPWRS Nov. 2020 4539-4553*

Physics-Aware Neural Networks for Distribution System State Estimation. *Zamzam, A.S.*, +, *TPWRS Nov. 2020 4347-4356*

Reconfigurable architectures

Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*

Rectifiers

A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*

Rectifying circuits

Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S.*, +, *TPWRS July 2020 3026-3039*

Recurrent neural networks

A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction. *Stappers, B.*, +, *TPWRS July 2020 3040-3050*

Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. *Buzau, M.*, +, *TPWRS March 2020 1254-1263*

Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*

- Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning. *Tan, M.*, +, *TPWRS July 2020 2937-2948*
- Reduced order systems**
- A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. *Xu, Y.*, +, *TPWRS Nov. 2020 4756-4768*
- A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T.*, +, *TPWRS March 2020 1446-1456*
- A Library of Second-Order Models for Synchronous Machines. *Ajala, O.*, +, *TPWRS Nov. 2020 4803-4814*
- Characterization of Subsynchronous Oscillation with Wind Farms Using Describing Function and Generalized Nyquist Criterion. *Xu, Y.*, +, *TPWRS July 2020 2783-2793*
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*
- Probabilistic Power Flow Based on a Gaussian Process Emulator. *Xu, Y.*, +, *TPWRS July 2020 3278-3281*
- Redundancy**
- Fast Screen of Redundant Transmission Constraints in Line Contingency-Constrained Dispatch. *Guo, Z.*, +, *TPWRS July 2020 3305-3307*
- Regenerative braking**
- Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters. *Hao, F.*, +, *TPWRS July 2020 2726-2735*
- Regression analysis**
- A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*
- A Novel Method for Hourly Electricity Demand Forecasting. *Zhang, G.*, +, *TPWRS March 2020 1351-1363*
- An Adaptive Bilevel Programming Model for Nonparametric Prediction Intervals of Wind Power Generation. *Zhao, C.*, +, *TPWRS Jan. 2020 424-439*
- Cost-Benefit Analysis of Phase Balancing Solution for Data-Scarce LV Networks by Cluster-Wise Gaussian Process Regression. *Kong, W.*, +, *TPWRS July 2020 3170-3180*
- Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. *Chakhchoukh, Y.*, +, *TPWRS March 2020 1188-1197*
- Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. *Zhu, L.*, +, *TPWRS May 2020 2399-2411*
- Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*
- Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach. *Tan, Y.*, +, *TPWRS May 2020 2475-2478*
- Multivariate Quantile Regression for Short-Term Probabilistic Load Forecasting. *Bracale, A.*, +, *TPWRS Jan. 2020 628-638*
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*
- Regulation**
- Participation of Pumped Hydro Storage in Energy and Performance-Based Regulation Markets. *Alharbi, H.*, +, *TPWRS Nov. 2020 4307-4323*
- Reinforcement learning**
- A Data-Driven Multi-Agent Autonomous Voltage Control Framework Using Deep Reinforcement Learning. *Wang, S.*, +, *TPWRS Nov. 2020 4644-4654*
- A Multi-Agent Deep Reinforcement Learning Method for Cooperative Load Frequency Control of a Multi-Area Power System. *Yan, Z.*, +, *TPWRS Nov. 2020 4599-4608*
- Agent-Based Modeling in Electricity Market Using Deep Deterministic Policy Gradient Algorithm. *Liang, Y.*, +, *TPWRS Nov. 2020 4180-4192*
- Relay protection**
- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*
- Reliability**
- Assessment of Spare Parts for System Components Using a Markov Model. *Hamoud, G.A.*, +, *TPWRS July 2020 3114-3121*
- Optimization Model-Based Reliability Assessment for Distribution Networks Considering Detailed Placement of Circuit Breakers and Switches. *Li, Z.*, +, *TPWRS Sept. 2020 3991-4004*
- Reliability-Based Probabilistic Network Pricing With Demand Uncertainty. *Yang, X.*, +, *TPWRS Sept. 2020 3342-3352*
- Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H.*, +, *TPWRS Sept. 2020 3682-3694*
- Renewable energy sources**
- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*
- Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*
- Adaptive Trading in Continuous Intraday Electricity Markets for a Storage Unit. *Bertrand, G.*, +, *TPWRS May 2020 2339-2350*
- An Open-Source Protection IED for Research and Education in Multiterminal HVDC Grids. *Jahn, I.*, +, *TPWRS July 2020 2949-2958*
- Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning. *Bukenberger, J.P.*, +, *TPWRS March 2020 1099-1108*
- Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*
- Availability Assessment Based Case-Sensitive Power System Restoration Strategy. *Liu, W.*, +, *TPWRS March 2020 1432-1445*
- Coalitional Game-Based Transactive Energy Management in Local Energy Communities. *Feng, C.*, +, *TPWRS May 2020 1729-1740*
- Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*
- Cost-Efficient Strategy for High Renewable Energy Penetration in Isolated Power Systems. *Semshchikov, E.*, +, *TPWRS Sept. 2020 3719-3728*
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Data-Driven Planning for Renewable Distributed Generation Integration. *Fathabad, A.M.*, +, *TPWRS Nov. 2020 4357-4368*
- Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*
- Distributionally Robust Co-Optimization of Power Dispatch and Do-Not-Exceed Limits. *Ma, H.*, +, *TPWRS March 2020 887-897*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*
- Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*
- Generation Capacity Expansion Considering Reserve Provision by Wind Power Units. *Canas-Carreton, M.*, +, *TPWRS Nov. 2020 4564-4573*
- Impact of High Renewable Penetration on the Power System Operation Mode: A Data-Driven Approach. *Hou, Q.*, +, *TPWRS Jan. 2020 731-741*
- Improving AGC Performance in Power Systems With Regulation Response Accuracy Margins Using Battery Energy Storage System (BESS). *Doenges, K.*, +, *TPWRS July 2020 2816-2825*
- Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*
- Incorporating Massive Scenarios in Transmission Expansion Planning With High Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS March 2020 1061-1074*
- Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. *Xu, D.*, +, *TPWRS Nov. 2020 4769-4780*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*

- Modeling Strategic Behaviors of Renewable Energy With Joint Consideration on Energy and Tradable Green Certificate Markets. *Guo, H.*, +, *TPWRS May 2020 1898-1910*
- Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R.*, +, *TPWRS March 2020 1274-1283*
- Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*
- Optimizing Instantaneous and Ramping Reserves With Different Response Speeds for Contingencies—Part I: Methodology. *Schipper, J.*, +, *TPWRS Sept. 2020 3953-3960*
- Power Market Model in Presence of Strategic Prosumers. *Ramyar, S.*, +, *TPWRS March 2020 898-908*
- Power-Based Generation Expansion Planning for Flexibility Requirements. *Tejada-Arango, D.A.*, +, *TPWRS May 2020 2012-2023*
- Probabilistic Operational Reliability of Composite Power Systems Considering Multiple Meteorological Factors. *Chen, X.*, +, *TPWRS Jan. 2020 85-97*
- Probabilistic Reliability Evaluation Including Adequacy and Dynamic Security Assessment. *Wang, Y.*, +, *TPWRS Jan. 2020 551-559*
- Real-Time Optimal Power Flow: A *Lagrangian* Based Deep Reinforcement Learning Approach. *Yan, Z.*, +, *TPWRS July 2020 3270-3273*
- Sensitivity-Based Approach for Assessment of Dynamic Locational Grid Flexibility. *Brahma, D.*, +, *TPWRS Sept. 2020 3470-3480*
- Thermal Inertial Aggregation Model for Integrated Energy Systems. *Lu, S.*, +, *TPWRS May 2020 2374-2387*
- Towards Definition of the Risk Premium Function. *Krecar, N.*, +, *TPWRS March 2020 1085-1098*
- Transmission Expansion Planning Test System for AC/DC Hybrid Grid With High Variable Renewable Energy Penetration. *Zhuo, Z.*, +, *TPWRS July 2020 2597-2608*
- Two-Level Parallel Augmented Schur Complement Interior-Point Algorithms for the Solution of Security Constrained Optimal Power Flow Problems. *Kardos, J.*, +, *TPWRS March 2020 1340-1350*
- Resonance**
- Design of Resonance Damper for Wind Energy Conversion System Providing Frequency Support Service to Low Inertia Power Systems. *Manaz, M.A.M.*, +, *TPWRS Nov. 2020 4297-4306*
- Resonant power converters**
- Theoretical Parameter Design Method of SFCL for Concurrent Commutation Failure Inhibition in SFCL-Segmented Multi-Infeed LCC-HVDC Systems. *Li, Y.*, +, *TPWRS May 2020 1741-1757*
- Resource allocation**
- Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*
- Capacity Scheduling of Energy Storage and Conventional Generation for Frequency Regulation Based on CPS1. *Pulendran, S.*, +, *TPWRS Jan. 2020 405-414*
- Retirement**
- Low-Carbon Electricity Network Transition Considering Retirement of Aging Coal Generators. *Shen, W.*, +, *TPWRS Nov. 2020 4193-4205*
- Risk analysis**
- Adversarial Feature Learning of Online Monitoring Data for Operational Risk Assessment in Distribution Networks. *Shi, X.*, +, *TPWRS March 2020 975-985*
- Risk management**
- A Risk Management Procedure for Island Partitioning of Automated Radial Distribution Networks With Distributed Generators. *Popovic, Z.N.*, +, *TPWRS Sept. 2020 3895-3905*
- Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*
- Distribution Electricity Pricing Under Uncertainty. *Mieth, R.*, +, *TPWRS May 2020 2325-2338*
- Fast and Accurate Frequency Response Estimation for Large Power System Disturbances Using Second Derivative of Frequency Data. *Wang, W.*, +, *TPWRS May 2020 2483-2486*
- Optimal Alliance Strategies Among Retailers Under Energy Deviation Settlement Mechanism in China's Forward Electricity Market. *Zhang, Z.*, +, *TPWRS May 2020 2059-2071*
- Towards Definition of the Risk Premium Function. *Krecar, N.*, +, *TPWRS March 2020 1085-1098*
- Robust control**
- Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control. *Hosseini, S.A.*, +, *TPWRS May 2020 2037-2046*
- Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*
- Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A.*, +, *TPWRS May 2020 1923-1935*
- Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. *Wang, Y.*, +, *TPWRS Jan. 2020 691-702*
- Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*
- Robustness**
- Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *Cao, Y.*, +, *TPWRS Nov. 2020 4908-4911*
- Data-Driven Distributionally Robust Unit Commitment With Wasserstein Metric: Tractable Formulation and Efficient Solution Method. *Zheng, X.*, +, *TPWRS Nov. 2020 4940-4943*
- Estimating the Robust P-Q Capability of a Technical Virtual Power Plant Under Uncertainties. *Tan, Z.*, +, *TPWRS Nov. 2020 4285-4296*
- Load Frequency Control in Variable Inertia Systems. *Syed, M.H.*, +, *TPWRS Nov. 2020 4904-4907*
- Power Flow Approach Based on the S-Iteration Process. *Tostado-Veliz, M.*, +, *TPWRS Nov. 2020 4148-4158*
- Rotors**
- A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*
- A Linear Inertial Response Emulation for Variable Speed Wind Turbines. *Azizipannah-Abarghoee, R.*, +, *TPWRS March 2020 1198-1208*
- A Sufficient and Necessary Condition of Transient Stability for Multimachine Systems. *Yao, Z.*, *TPWRS Jan. 2020 683-690*
- Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*
- Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *Mahish, P.*, +, *TPWRS Jan. 2020 362-373*
- Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance. *Xia, Y.*, +, *TPWRS May 2020 2120-2132*
- Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*
- Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*
- Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*
- Runge-Kutta methods**
- Time Integration-Based IGD Methods for Eigen-Analysis of Large Delayed Cyber-Physical Power System. *Ye, H.*, +, *TPWRS March 2020 1376-1388*
- S**
- Sampling methods**
- Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. *Zhang, Y.*, +, *TPWRS May 2020 2471-2474*

SCADA systems

- A Block Version of Orthogonal Rotations for Improving the Accuracy of Hybrid State Estimators. *Bez, D.M.*, +, *TPWRS Nov. 2020 4432-4444*
- Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*
- Towards Highly Efficient State Estimation With Nonlinear Measurements in Distribution Systems. *Zhang, Y.*, +, *TPWRS May 2020 2471-2474*

Scheduling

- A Multi-Period Market Design for Markets With Intertemporal Constraints. *Zhao, J.*, +, *TPWRS July 2020 3015-3025*
- Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. *Hui, H.*, +, *TPWRS Jan. 2020 332-345*
- Day-Ahead Contingency-Constrained Unit Commitment With Co-Optimized Post-Contingency Transmission Switching. *Saavedra, R.*, +, *TPWRS Nov. 2020 4408-4420*
- Electricity Pricing Under Constraint Violations. *Fang, X.*, +, *TPWRS July 2020 2794-2803*
- Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*
- Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*
- Study on Reducing the Parallel Overhead of the BBDF Method for Power System Transient Stability Simulations. *Xiao, T.*, +, *TPWRS Jan. 2020 539-550*
- Tri-Level Mixed-Integer Optimization for Two-Stage Microgrid Dispatch With Multi-Uncertainties. *Qiu, H.*, +, *TPWRS Sept. 2020 3636-3647*

Search problems

- A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X.*, +, *TPWRS Sept. 2020 3562-3573*
- A Unit Commitment Algorithm With Relaxation-Based Neighborhood Search and Improved Relaxation Inducement. *Ma, Z.*, +, *TPWRS Sept. 2020 3800-3809*
- Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*
- Kriging Assisted Surrogate Evolutionary Computation to Solve Optimal Power Flow Problems. *Deng, Z.*, +, *TPWRS March 2020 831-839*
- Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*
- Tie-Line Power Transmission Region in a Hybrid Grid: Fast Characterization and Expansion Strategy. *Lin, W.*, +, *TPWRS May 2020 2222-2231*

Secondary cells

- Battery Energy Storage Systems in Energy and Reserve Markets. *Padmanabhan, N.*, +, *TPWRS Jan. 2020 215-226*
- Non-Ideal Linear Operation Model for Li-Ion Batteries. *Gonzalez-Castellanos, A.J.*, +, *TPWRS Jan. 2020 672-682*

Security of data

- Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*
- Efficient Database Generation for Data-Driven Security Assessment of Power Systems. *Thams, F.*, +, *TPWRS Jan. 2020 30-41*
- Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. *Li, X.*, +, *TPWRS March 2020 1549-1561*
- Fast Cascading Outage Screening Based on Deep Convolutional Neural Network and Depth-First Search. *Du, Y.*, +, *TPWRS July 2020 2704-2715*
- Framework for Analysis and Quantification of Wide-Area Control Resilience for Power Systems. *Marinovic, L.D.*, +, *TPWRS March 2020 864-872*
- From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. *Pan, K.*, +, *TPWRS March 2020 1584-1596*
- Quantum Computing for Enhancing Grid Security. *Eskandarpour, R.*, +, *TPWRS Sept. 2020 4135-4137*

Sensitivity

- Measurement-Based Optimal DER Dispatch With a Recursively Estimated Sensitivity Model. *Nowak, S.*, +, *TPWRS Nov. 2020 4792-4802*

Online Preventive Control Method for Static Voltage Stability of Large Power Grids. *Yun, Z.*, +, *TPWRS Nov. 2020 4689-4698*

Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TPWRS Nov. 2020 4836-4846*

Sensitivity analysis

- Critical Clearing Time Sensitivity for Inequality Constrained Systems. *Mishra, C.*, +, *TPWRS March 2020 1572-1583*
- Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*
- Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS Nov. 2020 4944-4947*
- Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View. *Golpira, H.*, +, *TPWRS Nov. 2020 4824-4835*
- Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. *Jin, Y.*, +, *TPWRS May 2020 1769-1782*
- Real-Time Transient Stability Assessment Using Dynamic Equivalents and Nonlinear Observers. *Iravani, A.*, +, *TPWRS July 2020 2981-2992*
- Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M.*, +, *TPWRS Jan. 2020 346-361*

Sensors

Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. *Afshari, A.*, +, *TPWRS Sept. 2020 3774-3789*

Series (mathematics)

Solving Power System Differential Algebraic Equations Using Differential Transformation. *Liu, Y.*, +, *TPWRS May 2020 2289-2299*

Set theory

Distributed Cooperative Scheme for Forced Oscillation Location Identification in Power Systems. *Wu, X.*, +, *TPWRS Jan. 2020 374-384*

Ships

- Data-Driven Robust Coordination of Generation and Demand-Side in Photovoltaic Integrated All-Electric Ship Microgrids. *Fang, S.*, +, *TPWRS May 2020 1783-1795*
- Online Periodic Coordination of Multiple Pulsed Loads on All-Electric Ships. *Xie, R.*, +, *TPWRS July 2020 2658-2669*

Short-circuit currents

- New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M.*, +, *TPWRS Jan. 2020 527-538*
- Short-Circuit Constrained Power System Expansion Planning Considering Bundling and Voltage Levels of Lines. *Esmaili, M.*, +, *TPWRS Jan. 2020 584-593*

Signal processing

Online Estimation of System Inertia in a Power Network Utilizing Synchronophasor Measurements. *Panda, R.K.*, +, *TPWRS July 2020 3122-3132*

Signal reconstruction

Signal Selection for Oscillation Monitoring With Guarantees on Data Recovery Under Corruption. *Chatterjee, K.*, +, *TPWRS Nov. 2020 4723-4733*

Smart meters

- A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*
- A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*
- Hybrid Deep Neural Networks for Detection of Non-Technical Losses in Electricity Smart Meters. *Buzau, M.*, +, *TPWRS March 2020 1254-1263*
- Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. *Sun, M.*, +, *TPWRS Jan. 2020 188-201*

Smart power grids

- A Control-Based Method to Meet TSO and DSO Ancillary Services Needs by Flexible End-Users. *Zotti, G.D.*, +, *TPWRS May 2020 1868-1880*
- A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. *Yuan, Y.*, +, *TPWRS Sept. 2020 4026-4035*

- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*
- A Game Theoretic Approach to Phase Balancing by Plug-In Electric Vehicles in the Smart Grid. *Chen, S.*, +, *TPWRS May 2020 2232-2244*
- Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. *Wang, Y.*, +, *TPWRS July 2020 3145-3157*
- Closed-Loop Hierarchical Operation for Optimal Unit Commitment and Dispatch in Microgrids: A Hybrid System Approach. *Li, F.*, +, *TPWRS Jan. 2020 516-526*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part I: Architecture and Distributed Algorithms. *Nazari, M.H.*, +, *TPWRS March 2020 1317-1326*
- Communication-Failure-Resilient Distributed Frequency Control in Smart Grids: Part II: Algorithmic Implementation and System Simulations. *Nazari, M.H.*, +, *TPWRS July 2020 3192-3202*
- Convolutional Autoencoder Based Feature Extraction and Clustering for Customer Load Analysis. *Ryu, S.*, +, *TPWRS March 2020 1048-1060*
- Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*
- Cyber-Physical Attacks Targeting Communication-Assisted Protection Schemes. *Jahromi, A.A.*, +, *TPWRS Jan. 2020 440-450*
- Diagnosis of Outliers and Cyber Attacks in Dynamic PMU-Based Power State Estimation. *Chakhchoukh, Y.*, +, *TPWRS March 2020 1188-1197*
- Distributed Self-Healing Scheme for Unbalanced Electrical Distribution Systems Based on Alternating Direction Method of Multipliers. *Shen, F.*, +, *TPWRS May 2020 2190-2199*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y.*, +, *TPWRS May 2020 2155-2166*
- Hidden Convexities in Decentralized Coordination for the Distribution Networks. *Srikantha, P.*, +, *TPWRS Nov. 2020 4470-4483*
- Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*
- Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*
- Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*
- Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. *Liu, C.*, +, *TPWRS March 2020 1468-1478*
- Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks. *Wang, P.*, +, *TPWRS Sept. 2020 3388-3399*
- Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. *Roca, I.L.*, +, *TPWRS Jan. 2020 284-292*
- Smoothing methods**
- A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function. *Ju, Y.*, +, *TPWRS Nov. 2020 4896-4903*
- Software defined networking**
- Distributed and Asynchronous Active Fault Management for Networked Microgrids. *Wan, W.*, +, *TPWRS Sept. 2020 3857-3868*
- Solar power**
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*
- The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C.*, +, *TPWRS Jan. 2020 119-127*
- Solar power generation**
- Stochastic Online Generation Control of Cascaded Run-of-the-River Hydropower for Mitigating Solar Power Volatility. *Qiu, Y.*, +, *TPWRS Nov. 2020 4709-4722*
- Solar power stations**
- A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*
- Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L.*, +, *TPWRS March 2020 1646-1649*
- Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*
- Online Estimation of System Inertia in a Power Network Utilizing Synchronphasor Measurements. *Panda, R.K.*, +, *TPWRS July 2020 3122-3132*
- Optimal Multi-Period Dispatch of Distributed Energy Resources in Unbalanced Distribution Feeders. *Nazir, N.*, +, *TPWRS July 2020 2683-2692*
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*
- Sorting**
- A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H.*, +, *TPWRS July 2020 3262-3265*
- A Topological Sorting Approach to Identify Coherent Cut-Sets Within Power Grids. *Beiranvand, A.*, +, *TPWRS Jan. 2020 721-730*
- Source separation**
- A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. *Bu, F.*, +, *TPWRS July 2020 3133-3144*
- Sparsity matrices**
- An Efficient Method for Computing Exact Delay-Margins of Large-Scale Power Systems. *Li, C.*, +, *TPWRS Nov. 2020 4924-4927*
- Novel AC Distribution Factor for Efficient Outage Analysis. *Yao, R.*, +, *TPWRS Nov. 2020 4960-4963*
- Spectral analysis**
- Separable Estimation of Ambient Noise Spectrum in Synchronphasor Measurements in the Presence of Forced Oscillations. *Khan, M.A.*, +, *TPWRS Jan. 2020 415-423*
- Stability**
- A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*
- Distributed Small-Signal Stability Conditions for Inverter-Based Unbalanced Microgrids. *Nandanoori, S.P.*, +, *TPWRS Sept. 2020 3981-3990*
- Economic-Driven Frequency Regulation in Multi-Terminal HVDC Systems: A Cooperative Distributed Approach. *Jia, Y.*, +, *TPWRS May 2020 2245-2255*
- Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*
- New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M.*, +, *TPWRS Jan. 2020 527-538*
- Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H.*, +, *TPWRS Sept. 2020 3603-3615*
- Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Venelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*
- Stability analysis**
- A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. *Azman, S.K.*, +, *TPWRS Nov. 2020 4585-4598*
- Closure to Discussion on "Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids". *Lee, J.*, +, *TPWRS Sept. 2020 4139*
- Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. *Ling, Y.*, +, *TPWRS Nov. 2020 4263-4271*
- Implementation of Transient Stability Model of Compressed Air Energy Storage Systems. *Calero, I.*, +, *TPWRS Nov. 2020 4734-4744*
- Theory and Implementation of Fractional Order Controllers for Power System Applications. *Tzounas, G.*, +, *TPWRS Nov. 2020 4622-4631*
- Stability criteria**
- A Flexible Control Strategy to Prevent Sending-End Power System From Transient Instability Under HVDC Repetitive Commutation Failures. *Wang, W.*, +, *TPWRS Nov. 2020 4445-4458*
- An Efficient Method for Computing Exact Delay-Margins of Large-Scale Power Systems. *Li, C.*, +, *TPWRS Nov. 2020 4924-4927*
- Online Preventive Control Method for Static Voltage Stability of Large Power Grids. *Yun, Z.*, +, *TPWRS Nov. 2020 4689-4698*
- Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View. *Golpira, H.*, +, *TPWRS Nov. 2020 4824-4835*

- Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*
- Stability Analysis on Torsional Interactions of Turbine-Generator Connected With DFIG-WECS Using Admittance Model. *Velpula, S.*, +, *TPWRS Nov. 2020 4745-4755*
- State estimation**
- A Block Version of Orthogonal Rotations for Improving the Accuracy of Hybrid State Estimators. *Bez, D.M.*, +, *TPWRS Nov. 2020 4432-4444*
- A GIC Estimator for Electric Grid Monitoring During Geomagnetic Disturbances. *Klauber, C.*, +, *TPWRS Nov. 2020 4847-4855*
- A Robust Dynamic State Estimation Approach Against Model Errors Caused by Load Changes. *Wang, S.*, +, *TPWRS Nov. 2020 4518-4527*
- Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs. *Zhao, J.*, +, *TPWRS May 2020 2443-2451*
- Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*
- Distributed Stability Conditions for Power Systems With Heterogeneous Nonlinear Bus Dynamics. *Yang, P.*, +, *TPWRS May 2020 2313-2324*
- Improving Power System State Estimation Based on Matrix-Level Cleaning. *Yang, H.*, +, *TPWRS Sept. 2020 3529-3540*
- Physics-Aware Neural Networks for Distribution System State Estimation. *Zamzam, A.S.*, +, *TPWRS Nov. 2020 4347-4356*
- State of charge**
- Integrated Modelling and Enhanced Utilization of Power-to-Ammonia for High Renewable Penetrated Multi-Energy Systems. *Xu, D.*, +, *TPWRS Nov. 2020 4769-4780*
- State-space methods**
- Blind Kalman Filtering for Short-Term Load Forecasting. *Sharma, S.*, +, *TPWRS Nov. 2020 4916-4919*
- Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*
- Dynamic Aggregation of Grid-Tied Three-Phase Inverters. *Purba, V.*, +, *TPWRS March 2020 1520-1530*
- Static VAR compensators**
- Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S.*, +, *TPWRS July 2020 3026-3039*
- Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. *Varma, R.K.*, +, *TPWRS Nov. 2020 4251-4262*
- Unbalance Mitigation via Phase-Switching Device and Static Var Compensator in Low-Voltage Distribution Network. *Liu, B.*, +, *TPWRS Nov. 2020 4856-4869*
- Statistical analysis**
- A Statistical Approach to Guide Phase Swapping for Data-Scarce Low Voltage Networks. *Fang, L.*, +, *TPWRS Jan. 2020 751-761*
- Adversarial Feature Learning of Online Monitoring Data for Operational Risk Assessment in Distribution Networks. *Shi, X.*, +, *TPWRS March 2020 975-985*
- An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS March 2020 1642-1645*
- Approximate Latent Factor Algorithm for Scenario Selection and Weighting in Transmission Expansion Planning. *Bukenberger, J.P.*, +, *TPWRS March 2020 1099-1108*
- Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*
- Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. *Zhou, Y.*, +, *TPWRS May 2020 2388-2398*
- Evaluating Measurement-Based Dynamic Load Modeling Techniques and Metrics. *Cicilio, P.*, +, *TPWRS May 2020 1805-1811*
- Invisible Units Detection and Estimation Based on Random Matrix Theory. *He, X.*, +, *TPWRS May 2020 1846-1855*
- Power System Mode Metering in the Presence of Non-Gaussian Noise. *Ahmad, T.*, +, *TPWRS Sept. 2020 4124-4126*
- Statistical Characterization of PMU Error for Robust WAMS Based Analytics. *Ahmad, T.*, +, *TPWRS March 2020 920-928*
- Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. *Dehghanpour, K.*, +, *TPWRS Sept. 2020 3835-3846*
- Statistical distributions**
- A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*
- Distributionally Robust Co-Optimization of Power Dispatch and Do-Not-Exceed Limits. *Ma, H.*, +, *TPWRS March 2020 887-897*
- Distributionally Robust CVaR Constraints for Power Flow Optimization. *Jabr, R.A.*, *TPWRS Sept. 2020 3764-3773*
- Distributionally Robust Distribution Network Configuration Under Random Contingency. *Babaei, S.*, +, *TPWRS Sept. 2020 3332-3341*
- Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. *Gruosso, G.*, +, *TPWRS Jan. 2020 618-627*
- Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation. *Wahbah, M.*, +, *TPWRS Jan. 2020 652-661*
- The Use of Extreme Value Theory for Forecasting Long-Term Substation Maximum Electricity Demand. *Li, Y.*, +, *TPWRS Jan. 2020 128-139*
- Stators**
- A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*
- Multi-Scale Induction Machine Model in the Phase Domain With Constant Inner Impedance. *Xia, Y.*, +, *TPWRS May 2020 2120-2132*
- Steady-state**
- Measuring Systemic Risk of Switching Attacks Based on Cybersecurity Technologies in Substations. *Yamashita, K.*, +, *TPWRS Nov. 2020 4206-4219*
- Reachable Eigenanalysis. *Zhou, Y.*, +, *TPWRS Nov. 2020 4936-4939*
- Steam power stations**
- Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets. *Chen, S.*, +, *TPWRS July 2020 2736-2747*
- Steam turbines**
- Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation. *Wu, D.*, +, *TPWRS July 2020 2915-2925*
- Stochastic processes**
- A Chance-Constrained Stochastic Electricity Market. *Dvorkin, Y.*, *TPWRS July 2020 2993-3003*
- A Class-Driven Approach Based on Long Short-Term Memory Networks for Electricity Price Scenario Generation and Reduction. *Stappers, B.*, +, *TPWRS July 2020 3040-3050*
- An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*
- Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *Cao, Y.*, +, *TPWRS Nov. 2020 4908-4911*
- Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*
- Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs. *Zhao, J.*, +, *TPWRS May 2020 2443-2451*
- Distributionally Robust CVaR Constraints for Power Flow Optimization. *Jabr, R.A.*, *TPWRS Sept. 2020 3764-3773*
- Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*
- Generation Capacity Expansion Considering Reserve Provision by Wind Power Units. *Canas-Carreton, M.*, +, *TPWRS Nov. 2020 4564-4573*
- Multidimensional Scenario Selection for Power Systems With Stochastic Failures. *Mohammadi, F.*, +, *TPWRS Nov. 2020 4528-4538*

- Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L., +, TPWRS May 2020 2300-2312*
- On the Initialization of Transient Stability Models of Power Systems With the Inclusion of Stochastic Processes. *Jonsdottir, G.M., +, TPWRS Sept. 2020 4112-4115*
- Optimal Power Flow Models With Probabilistic Guarantees: A Boolean Approach. *Lejeune, M.A., +, TPWRS Nov. 2020 4932-4935*
- Probabilistic Operational Reliability of Composite Power Systems Considering Multiple Meteorological Factors. *Chen, X., +, TPWRS Jan. 2020 85-97*
- Quantifying Market Efficiency Impacts of Aggregated Distributed Energy Resources. *Alshehri, K., +, TPWRS Sept. 2020 4067-4077*
- Real-Time Optimal Power Flow: A Lagrangian Based Deep Reinforcement Learning Approach. *Yan, Z., +, TPWRS July 2020 3270-3273*
- Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y., +, TPWRS Sept. 2020 3940-3952*
- Stochastic Online Generation Control of Cascaded Run-of-the-River Hydropower for Mitigating Solar Power Volatility. *Qiu, Y., +, TPWRS Nov. 2020 4709-4722*
- Stochastic Unit Commitment in Low-Inertia Grids. *Paturet, M., +, TPWRS Sept. 2020 3448-3458*
- Stochastic programming**
- A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H., +, TPWRS July 2020 3262-3265*
- A Two-Stage Game-Theoretic Method for Residential PV Panels Planning Considering Energy Sharing Mechanism. *Xu, X., +, TPWRS Sept. 2020 3562-3573*
- Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y., +, TPWRS July 2020 2769-2782*
- Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F., +, TPWRS July 2020 2888-2903*
- Distributionally Robust CVaR Constraints for Power Flow Optimization. *Jabr, R.A., TPWRS Sept. 2020 3764-3773*
- Distributionally Robust Transmission Expansion Planning: A Multi-Scale Uncertainty Approach. *Velloso, A., +, TPWRS Sept. 2020 3353-3365*
- Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. *Zhou, Y., +, TPWRS May 2020 2155-2166*
- Scenario-Wise Distributionally Robust Optimization for Collaborative Intermittent Resources and Electric Vehicle Aggregator Bidding Strategy. *Hajebrahimi, A., +, TPWRS Sept. 2020 3706-3718*
- Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y., +, TPWRS Sept. 2020 3940-3952*
- Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. *Pourakbari-Kasmaei, M., +, TPWRS Jan. 2020 346-361*
- Storms**
- Resilience Assessment of Interdependent Energy Systems Under Hurricanes. *Zhang, H., +, TPWRS Sept. 2020 3682-3694*
- Submarine cables**
- Optimal Planning of Isolated Power Systems with near 100% of Renewable Energy. *Silva, A.R., +, TPWRS March 2020 1274-1283*
- Substations**
- A Statistical Approach to Guide Phase Swapping for Data-Scarce Low Voltage Networks. *Fang, L., +, TPWRS Jan. 2020 751-761*
- An Information Theoretic Approach to Power-Substation Level Dynamic State Estimation With Non-Gaussian Noise. *Ahmad, T., +, TPWRS March 2020 1642-1645*
- An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. *Meira de Andrade, P.H., +, TPWRS Sept. 2020 3400-3409*
- Improvement of Power System Transient Stability in the Event of Multi-Phase Faults and Circuit Breaker Failures. *Robak, S., +, TPWRS May 2020 2422-2430*
- Measuring Systemic Risk of Switching Attacks Based on Cybersecurity Technologies in Substations. *Yamashita, K., +, TPWRS Nov. 2020 4206-4219*
- Modeling the Aggregated Response of Variable Frequency Drives (VFDs) for Power System Dynamic Studies. *Mitra, P., +, TPWRS July 2020 2631-2641*
- Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters. *Hao, F., +, TPWRS July 2020 2726-2735*
- The Use of Extreme Value Theory for Forecasting Long-Term Substation Maximum Electricity Demand. *Li, Y., +, TPWRS Jan. 2020 128-139*
- Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D., +, TPWRS May 2020 1663-1673*
- Superconducting fault current limiters**
- Theoretical Parameter Design Method of SFCL for Concurrent Commutation Failure Inhibition in SFCL-Segmented Multi-Infeed LCC-HVDC Systems. *Li, Y., +, TPWRS May 2020 1741-1757*
- Supervisory control**
- Closure to Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids”. *Lee, J., +, TPWRS Sept. 2020 4139*
- Discussion on “Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids”. *Khalid, M., TPWRS Sept. 2020 4138*
- Supply and demand**
- Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. *Chen, S., +, TPWRS May 2020 1956-1966*
- Support vector machines**
- A Novel Method for Hourly Electricity Demand Forecasting. *Zhang, G., +, TPWRS March 2020 1351-1363*
- Surges**
- A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. *Zhang, X., +, TPWRS July 2020 2959-2970*
- Switches**
- A Novel Decomposition Solution Approach for the Restoration Problem in Distribution Networks. *Sekhavatmanesh, H., +, TPWRS Sept. 2020 3810-3824*
- Synchronization**
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M., +, TPWRS Jan. 2020 795-802*
- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q., +, TPWRS March 2020 1294-1304*
- Impact of Current Transients on the Synchronization Stability Assessment of Grid-Feeding Converters. *Chen, J., +, TPWRS Sept. 2020 4131-4134*
- New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M., +, TPWRS Jan. 2020 527-538*
- PLL and Additional Frequency Control Constituting an Adaptive Synchronization Mechanism for VSCs. *Zhang, M., +, TPWRS Nov. 2020 4920-4923*
- Sliding Framework for Inverter-Based Microgrid Control. *Li, Y., +, TPWRS March 2020 1657-1660*
- Synchronous generators**
- A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *Li, M., +, TPWRS Jan. 2020 594-604*
- A Generalized PSS Architecture for Balancing Transient and Small-Signal Response. *Elliott, R.T., +, TPWRS March 2020 1446-1456*
- A Parameter Alternating VSG Controller of VSC-MTDC Systems for Low Frequency Oscillation Damping. *Wang, W., +, TPWRS Nov. 2020 4609-4621*
- Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A., +, TPWRS Sept. 2020 3459-3469*
- An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A., +, TPWRS May 2020 2351-2361*
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M., +, TPWRS Jan. 2020 795-802*
- Correction to “A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator” [Jan 20 594-604]. *Li, M., +, TPWRS July 2020 3316*
- Efficient and Robust Dynamic Simulation of Power Systems With Holomorphic Embedding. *Yao, R., +, TPWRS March 2020 938-949*

- Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. *Cao, S.*, +, *TPWRS March 2020 1539-1548*
- Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. *Ling, Y.*, +, *TPWRS Nov. 2020 4263-4271*
- Improving Small-Signal Stability of Power Systems With Significant Converter-Interfaced Generation. *Mauricio, J.M.*, +, *TPWRS July 2020 2904-2914*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*
- New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. *Choopani, M.*, +, *TPWRS Jan. 2020 527-538*
- Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A.*, +, *TPWRS May 2020 1796-1804*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*
- Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A.*, +, *TPWRS May 2020 1923-1935*
- Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*
- Stochastic Unit Commitment in Low-Inertia Grids. *Paturet, M.*, +, *TPWRS Sept. 2020 3448-3458*
- The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*
- The Influence of Network Factors on Frequency Stability. *Fradley, J.*, +, *TPWRS July 2020 2826-2834*
- Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*
- Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions. *Li, Y.*, +, *TPWRS Jan. 2020 109-118*
- Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*

Synchronous machines

- A Library of Second-Order Models for Synchronous Machines. *Ajala, O.*, +, *TPWRS Nov. 2020 4803-4814*
- A New Synchronous DG Model for Unbalanced Multiphase Power Flow Studies. *Beneteli, T.A.P.*, +, *TPWRS Jan. 2020 803-813*
- Modeling Frequency Dynamics in Unit Commitment With a High Share of Renewable Energy. *Zhang, Z.*, +, *TPWRS Nov. 2020 4383-4395*
- Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation. *Wu, D.*, +, *TPWRS July 2020 2915-2925*

T

Tariffs

- A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. *Parizy, E.S.*, +, *TPWRS Sept. 2020 3421-3432*

Telecommunication computing

- A Novel Distributed Cloud-Fog Based Framework for Energy Management of Networked Microgrids. *Dabbaghjamesh, M.*, +, *TPWRS July 2020 2847-2862*

- Distributed and Asynchronous Active Fault Management for Networked Microgrids. *Wan, W.*, +, *TPWRS Sept. 2020 3857-3868*

Telecommunication network management

- Distributed and Asynchronous Active Fault Management for Networked Microgrids. *Wan, W.*, +, *TPWRS Sept. 2020 3857-3868*

Telecommunication security

- Coordinated Risk Mitigation Strategy For Integrated Energy Systems Under Cyber-Attacks. *Zhao, P.*, +, *TPWRS Sept. 2020 4014-4025*

Telecontrol

- Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. *Bassey, O.*, +, *TPWRS Jan. 2020 202-214*

Tendering

- Near-Optimal Scheduling in Day-Ahead Markets: Pricing Models and Payment Redistribution Bounds. *Eldridge, B.*, +, *TPWRS May 2020 1684-1694*

Tensors

- PMU Missing Data Recovery Using Tensor Decomposition. *Osipov, D.*, +, *TPWRS Nov. 2020 4554-4563*

Thermal analysis

- Time-Process Power Flow Calculation Considering Thermal Behavior of Transmission Components. *Zhou, S.*, +, *TPWRS Nov. 2020 4232-4250*

Thermal energy storage

- Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*

- Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. *Nguyen, H.T.*, +, *TPWRS Sept. 2020 3494-3505*

- Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. *Mohandes, B.*, +, *TPWRS July 2020 2642-2657*

Thermal power stations

- Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. *Chen, S.*, +, *TPWRS Jan. 2020 662-671*

- The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C.*, +, *TPWRS Jan. 2020 119-127*

- Thermal Inertial Aggregation Model for Integrated Energy Systems. *Lu, S.*, +, *TPWRS May 2020 2374-2387*

Thermostats

- A Packetized Energy Management Macromodel With Quality of Service Guarantees for Demand-Side Resources. *Espinosa, L.A.D.*, +, *TPWRS Sept. 2020 3660-3670*

- On the Interaction Between Aggregators, Electricity Markets and Residential Demand Response Providers. *Bruninx, K.*, +, *TPWRS March 2020 840-853*

Three-term control

- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Thyristors

- Transmission Expansion Planning Including TCSCs and SFCLs: A MINLP Approach. *Esmaili, M.*, +, *TPWRS Nov. 2020 4396-4407*

Time measurement

- Adaptive Event Location Technique via Time Difference of Event Arrival. *Kim, D.*, +, *TPWRS Jan. 2020 75-84*

Time series

- A Statistical Approach to Guide Phase Swapping for Data-Scarce Low Voltage Networks. *Fang, L.*, +, *TPWRS Jan. 2020 751-761*

- Correlation-Aided Robust Decentralized Dynamic State Estimation of Power Systems With Unknown Control Inputs. *Zhao, J.*, +, *TPWRS May 2020 2443-2451*

- Hybrid Ensemble Deep Learning for Deterministic and Probabilistic Low-Voltage Load Forecasting. *Cao, Z.*, +, *TPWRS May 2020 1881-1897*

- Ultra-Short-Term Industrial Power Demand Forecasting Using LSTM Based Hybrid Ensemble Learning. *Tan, M.*, +, *TPWRS July 2020 2937-2948*

Time-domain analysis

- A Sufficient and Necessary Condition of Transient Stability for Multima-
chine Systems. *Yao, Z.*, *TPWRS Jan. 2020 683-690*

- Characterization of Subsynchronous Oscillation with Wind Farms Using Describing Function and Generalized Nyquist Criterion. *Xu, Y.*, +, *TPWRS July 2020 2783-2793*

- Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. *Zhou, Q.*, +, *TPWRS March 2020 1294-1304*

- Controller Interaction and Stability Margins in Mixed SCR MMC-Based HVDC Grid. *Dewangan, L.*, +, *TPWRS July 2020 2835-2846*

- Damping of Inter-Area Oscillations via Modulation of Aggregated Loads. *Wilches-Bernal, F.*, +, *TPWRS May 2020 2024-2036*

- Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. *Mir, A.S.*, +, *TPWRS March 2020 1400-1410*

- Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. *Zhou, Q.*, +, *TPWRS Jan. 2020 474-486*

- Individual Functions Method for Power System Transient Stability Assessment. *Al Araifi, S.M.*, +, *TPWRS March 2020 1264-1273*

- Modeling and Experimental Validation of Power Electronic Loads and DERs For Microgrid Islanding Simulations. *Roos, M.H.*, +, *TPWRS May 2020 2279-2288*
- Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*
- Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Venelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*
- Time-frequency analysis**
- Load Frequency Control in Variable Inertia Systems. *Syed, M.H.*, +, *TPWRS Nov. 2020 4904-4907*
- Time-of-arrival estimation**
- Adaptive Event Location Technique via Time Difference of Event Arrival. *Kim, D.*, +, *TPWRS Jan. 2020 75-84*
- Time-varying systems**
- Stability Analysis of Load Frequency Control Systems With Sampling and Transmission Delay. *Luo, H.*, +, *TPWRS Sept. 2020 3603-3615*
- Timing**
- Impact of Market Timing on the Profit of a Risk-Averse Load Aggregator. *Herre, L.*, +, *TPWRS Sept. 2020 3970-3980*
- Torque**
- A Linear Inertial Response Emulation for Variable Speed Wind Turbines. *Azizipناه-Abarghoee, R.*, +, *TPWRS March 2020 1198-1208*
- An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*
- Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*
- Torsion**
- Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions. *Li, Y.*, +, *TPWRS Jan. 2020 109-118*
- Traction**
- Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S.*, +, *TPWRS July 2020 3026-3039*
- Traction power supplies**
- Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters. *Hao, F.*, +, *TPWRS July 2020 2726-2735*
- Transfer functions**
- A Strategy for Forced Oscillation Suppression. *Trudnowski, D.J.*, +, *TPWRS Nov. 2020 4699-4708*
- Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. *Majumder, S.*, +, *TPWRS March 2020 1231-1241*
- Transient analysis**
- A Flexible Control Strategy to Prevent Sending-End Power System From Transient Instability Under HVDC Repetitive Commutation Failures. *Wang, W.*, +, *TPWRS Nov. 2020 4445-4458*
- A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. *Azman, S.K.*, +, *TPWRS Nov. 2020 4585-4598*
- Implementation of Transient Stability Model of Compressed Air Energy Storage Systems. *Calero, I.*, +, *TPWRS Nov. 2020 4734-4744*
- Sliding Framework for Inverter-Based Microgrid Control. *Li, Y.*, +, *TPWRS March 2020 1657-1660*
- Transient response**
- Comparison of Coupled Nonlinear Oscillator Models for the Transient Response of Power Generating Stations Connected to Low Inertia Systems. *Zarifakis, M.*, +, *TPWRS Jan. 2020 795-802*
- Transients**
- Calculating Impulse and Frequency Response of Large Power System Models for Realization Identification. *Rimorov, D.*, +, *TPWRS Sept. 2020 3825-3834*
- Transmission networks**
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Generalized Power Flow Analysis of Electrical Power Systems Modeled as Mixed Single-Phase/Three-Phase Sub-Systems. *Bizzarri, F.*, +, *TPWRS March 2020 1284-1293*
- Modal Participation Factors of Algebraic Variables. *Tzounas, G.*, +, *TPWRS Jan. 2020 742-750*
- Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*
- Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*
- Tree searching**
- An Adaptive Bilevel Programming Model for Nonparametric Prediction Intervals of Wind Power Generation. *Zhao, C.*, +, *TPWRS Jan. 2020 424-439*
- Stochastic Maintenance Schedules of Active Distribution Networks Based on Monte-Carlo Tree Search. *Shang, Y.*, +, *TPWRS Sept. 2020 3940-3952*
- Trees (mathematics)**
- Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X.*, +, *TPWRS May 2020 2047-2058*
- On the Radiality Constraints for Distribution System Restoration and Reconfiguration Problems. *Wang, Y.*, +, *TPWRS July 2020 3294-3296*
- State Estimation for Large-Scale Power Systems and FACTS Devices Based on Spanning Tree Maximum Exponential Absolute Value. *Chitsazan, M.A.*, +, *TPWRS Jan. 2020 238-248*
- Tuning**
- A Discrete-Time Non-Adaptive SOGI-Based Frequency-Locked Loop. *Yu, J.*, +, *TPWRS Nov. 2020 4912-4915*
- Cross-Gramian Model Reduction Approach for Tuning Power System Stabilizers in Large Power Networks. *Ghosh, S.*, +, *TPWRS May 2020 1911-1922*
- Turbines**
- Electric Power PSS With Ramp-Rejection. *Gibbard, M.J.*, +, *TPWRS Nov. 2020 4495-4504*
- Singular Perturbation for the Dynamic Modeling of Integrated Energy Systems. *Shen, F.*, +, *TPWRS May 2020 1718-1728*

U

Ubiquitous computing

- Scale- and Context-Aware Convolutional Non-Intrusive Load Monitoring. *Chen, K.*, +, *TPWRS May 2020 2362-2373*

Uncertain systems

- A Computational Attractive Interval Power Flow Approach With Correlated Uncertain Power Injections. *Liu, B.*, +, *TPWRS Jan. 2020 825-828*
- Robust Dynamic State Estimation of Synchronous Machines With Asymptotic State Estimation Error Performance Guarantees. *Nugroho, S.A.*, +, *TPWRS May 2020 1923-1935*
- Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*

Uncertainty

- A Data-Driven Nonparametric Approach for Probabilistic Load-Margin Assessment Considering Wind Power Penetration. *Xu, Y.*, +, *TPWRS Nov. 2020 4756-4768*
- Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *Cao, Y.*, +, *TPWRS Nov. 2020 4908-4911*
- Correction to "Convex Relaxations of Chance Constrained AC Optimal Power Flow" [May 18 2829-2841]. *Venzke, A.*, +, *TPWRS Sept. 2020 4142*
- Correction to "Convex Relaxations of Probabilistic AC Optimal Power Flow for Interconnected AC and HVDC Grids" [Jul 19 2706-2718]. *Venzke, A.*, +, *TPWRS Sept. 2020 4143*
- Data-Driven Planning for Renewable Distributed Generation Integration. *Fathabad, A.M.*, +, *TPWRS Nov. 2020 4357-4368*
- Estimating the Robust P-Q Capability of a Technical Virtual Power Plant Under Uncertainties. *Tan, Z.*, +, *TPWRS Nov. 2020 4285-4296*
- Generation Capacity Expansion Considering Reserve Provision by Wind Power Units. *Canas-Carreton, M.*, +, *TPWRS Nov. 2020 4564-4573*
- Impact of Market Timing on the Profit of a Risk-Averse Load Aggregator. *Herre, L.*, +, *TPWRS Sept. 2020 3970-3980*

Multidimensional Scenario Selection for Power Systems With Stochastic Failures. *Mohammadi, F.*, +, *TPWRS Nov. 2020 4528-4538*

Optimal Energy Storage System-Based Virtual Inertia Placement: A Frequency Stability Point of View. *Golpira, H.*, +, *TPWRS Nov. 2020 4824-4835*

Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems. *Badesa, L.*, +, *TPWRS Nov. 2020 4459-4469*

Optimal Power Flow Models With Probabilistic Guarantees: A Boolean Approach. *Lejeune, M.A.*, +, *TPWRS Nov. 2020 4932-4935*

Participation of Pumped Hydro Storage in Energy and Performance-Based Regulation Markets. *Alharbi, H.*, +, *TPWRS Nov. 2020 4307-4323*

Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. *Park, B.*, +, *TPWRS Nov. 2020 4324-4334*

Reachable Eigenanalysis. *Zhou, Y.*, +, *TPWRS Nov. 2020 4936-4939*

Robust Control Scheme for Distributed Battery Energy Storage Systems in Load Frequency Control. *Oshnoei, A.*, +, *TPWRS Nov. 2020 4781-4791*

Stochastic and Distributionally Robust Load Ensemble Control. *Hassan, A.*, +, *TPWRS Nov. 2020 4678-4688*

Stochastic Online Generation Control of Cascaded Run-of-the-River Hydropower for Mitigating Solar Power Volatility. *Qiu, Y.*, +, *TPWRS Nov. 2020 4709-4722*

Tri-Level Mixed-Integer Optimization for Two-Stage Microgrid Dispatch With Multi-Uncertainties. *Qiu, H.*, +, *TPWRS Sept. 2020 3636-3647*

Unsupervised learning

Improved Deep Belief Network for Short-Term Load Forecasting Considering Demand-Side Management. *Kong, X.*, +, *TPWRS March 2020 1531-1538*

V

Variable speed drives

Fast Frequency Response From Smart Induction Motor Variable Speed Drives. *Malekpour, M.*, +, *TPWRS March 2020 997-1008*

Modeling the Aggregated Response of Variable Frequency Drives (VFDs) for Power System Dynamic Studies. *Mitra, P.*, +, *TPWRS July 2020 2631-2641*

Variable structure systems

Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Vectors

Lossy DistFlow Formulation for Single and Multiphase Radial Feeders. *Schweitzer, E.*, +, *TPWRS May 2020 1758-1768*

Velocity control

Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*

Voltage control

A Calculation Method for Three-Phase Power Flow in Micro-Grid Based on Smooth Function. *Ju, Y.*, +, *TPWRS Nov. 2020 4896-4903*

A Data-Based Learning and Control Method for Long-Term Voltage Stability. *Cai, H.*, +, *TPWRS July 2020 3203-3212*

A Grid-Support Strategy With PV Units to Boost Short-Term Voltage Stability Under Asymmetrical Faults. *Islam, M.*, +, *TPWRS March 2020 1120-1131*

A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters. *Cao, D.*, +, *TPWRS Sept. 2020 4120-4123*

A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. *Song, Y.*, +, *TPWRS Jan. 2020 496-507*

A New Synchronous DG Model for Unbalanced Multiphase Power Flow Studies. *Beneteli, T.A.P.*, +, *TPWRS Jan. 2020 803-813*

A Practical Distributed Finite-Time Control Scheme for Power System Transient Stability. *Wang, Z.*, +, *TPWRS Sept. 2020 3320-3331*

A Robust H_∞ Multivariable Stabilizer Design for Droop Based Autonomous AC Microgrid. *Sharma, R.K.*, +, *TPWRS Nov. 2020 4369-4382*

A Simple Control Scheme for Improving Reactive Power Sharing in Islanded Microgrid. *Gupta, Y.*, +, *TPWRS July 2020 3158-3169*

A Stochastic Multi-Objective Approach to Pilot Bus Selection for Secondary Voltage Regulation. *Su, H.*, +, *TPWRS July 2020 3262-3265*

Accelerated Voltage Regulation in Multi-Phase Distribution Networks Based on Hierarchical Distributed Algorithm. *Zhou, X.*, +, *TPWRS May 2020 2047-2058*

Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F.*, +, *TPWRS Jan. 2020 385-394*

Closure to Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation". *Song, Y.*, +, *TPWRS Nov. 2020 4975-4976*

Closure to Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Khayat, Y.*, +, *TPWRS Nov. 2020 4973*

Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H.*, +, *TPWRS May 2020 2133-2143*

Deep-Reinforcement-Learning-Based Autonomous Voltage Control for Power Grid Operations. *Duan, J.*, +, *TPWRS Jan. 2020 814-817*

Discussion on "A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation". *Al-Ismael, F.S.*, *TPWRS Nov. 2020 4974*

Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids". *Alshehri, J.*, +, *TPWRS Nov. 2020 4972*

Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing. *Wang, Z.*, +, *TPWRS May 2020 1812-1821*

Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent. *Guo, Y.*, +, *TPWRS Nov. 2020 4505-4517*

Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. *Ruan, H.*, +, *TPWRS Nov. 2020 4220-4231*

Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

Enhanced Microgrid Power Flow Incorporating Hierarchical Control. *Feng, F.*, +, *TPWRS May 2020 2463-2466*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Impedance Modeling and Stability Analysis in Vehicle-Grid System with CHB-STATCOM. *Wu, S.*, +, *TPWRS July 2020 3026-3039*

Implementation of Transient Stability Model of Compressed Air Energy Storage Systems. *Calero, I.*, +, *TPWRS Nov. 2020 4734-4744*

Implicit Z_{bus} Gauss Algorithm Revisited. *Feng, F.*, +, *TPWRS Sept. 2020 4108-4111*

Investigation of Relevant Distribution System Representation With DG for Voltage Stability Margin Assessment. *Bharati, A.K.*, +, *TPWRS May 2020 2072-2081*

Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS Nov. 2020 4944-4947*

Mitigating Stability Issues Due to Line Dynamics in Droop-Controlled Multi-Inverter Systems. *Raman, G.*, +, *TPWRS May 2020 2082-2092*

Model Predictive Control Based AC Line Overload Alleviation by Using Multi-Terminal DC Grids. *Mehrabankhomartash, M.*, +, *TPWRS Jan. 2020 177-187*

Online Preventive Control Method for Static Voltage Stability of Large Power Grids. *Yun, Z.*, +, *TPWRS Nov. 2020 4689-4698*

Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. *Zhou, Q.*, +, *TPWRS May 2020 2452-2462*

Optimal DC Voltage and Current Control of an LCC HVDC System to Improve Real-Time Frequency Regulation in Rectifier- and Inverter-Side Grids. *Kwon, D.*, +, *TPWRS Nov. 2020 4539-4553*

Optimal Distributed Feedback Voltage Control Under Limited Reactive Power. *Qu, G.*, +, *TPWRS Jan. 2020 315-331*

Optimal Electric Spring Allocation for Risk-Limiting Voltage Regulation in Distribution Systems. *Zheng, Y.*, +, *TPWRS Jan. 2020 273-283*

Optimal Tap Setting of Voltage Regulation Transformers Using Batch Reinforcement Learning. *Xu, H.*, +, *TPWRS May 2020 1990-2001*

Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*

Optimal Voltage Regulation and Power Sharing in Traction Power Systems With Reversible Converters. *Hao, F.*, +, *TPWRS July 2020 2726-2735*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

PI-Consensus Based Distributed Control of AC Microgrids. *Shi, M.*, +, *TPWRS May 2020 2268-2278*

Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. *Sadabadi, M.S.*, +, *TPWRS Jan. 2020 508-515*

Stability Criterion for Inertial and Primary Frequency Droop Control in MTDC Grids With Implications on Ratio-Based Frequency Support. *Venelaganti, S.G.*, +, *TPWRS Sept. 2020 3541-3551*

Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*

The Equivalent Models of Grid-Forming Inverters in the Sequence Domain for the Steady-State Analysis of Power Systems. *Mahamedi, B.*, +, *TPWRS July 2020 2876-2887*

Theory and Implementation of Fractional Order Controllers for Power System Applications. *Tzounas, G.*, +, *TPWRS Nov. 2020 4622-4631*

Unbalance Mitigation via Phase-Switching Device and Static Var Compensator in Low-Voltage Distribution Network. *Liu, B.*, +, *TPWRS Nov. 2020 4856-4869*

Voltage distribution

Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification. *Liu, S.*, +, *TPWRS March 2020 1653-1656*

Voltage measurement

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

Measurement-Based Optimal DER Dispatch With a Recursively Estimated Sensitivity Model. *Nowak, S.*, +, *TPWRS Nov. 2020 4792-4802*

Optimal Distributed Feedback Voltage Control Under Limited Reactive Power. *Qu, G.*, +, *TPWRS Jan. 2020 315-331*

Physics-Aware Neural Networks for Distribution System State Estimation. *Zamzam, A.S.*, +, *TPWRS Nov. 2020 4347-4356*

PMU Missing Data Recovery Using Tensor Decomposition. *Osipov, D.*, +, *TPWRS Nov. 2020 4554-4563*

Power Distribution Network Dynamic Topology Awareness and Localization Based on Subspace Perturbation Model. *Zhou, N.*, +, *TPWRS March 2020 1479-1488*

Topology Estimation Using Graphical Models in Multi-Phase Power Distribution Grids. *Deka, D.*, +, *TPWRS May 2020 1663-1673*

Voltage regulators

A Coordinated Control Strategy for LCC HVDC Systems for Frequency Support with Suppression of AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS July 2020 2804-2815*

Data-Driven Voltage Regulation in Radial Power Distribution Systems. *Xu, H.*, +, *TPWRS May 2020 2133-2143*

Distributed Voltage Regulation and Automatic Power Sharing in Multi-Terminal HVDC Grids. *Zhang, Y.*, +, *TPWRS Sept. 2020 3739-3752*

Enhanced Power Capability of Generator Units for Increased Operational Security Using NMPC. *Oyvang, T.*, +, *TPWRS March 2020 1562-1571*

Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. *Malekpour, A.R.*, +, *TPWRS March 2020 854-863*

Modulated Oscillations of Synchronous Machine Nonlinear Dynamics With Saturation. *Wu, D.*, +, *TPWRS July 2020 2915-2925*

Optimal Voltage Control Strategy for Voltage Regulators in Active Unbalanced Distribution Systems Using Multi-Agents. *Bedawy, A.*, +, *TPWRS March 2020 1023-1035*

Passivity-Based Control of Power Systems Considering Hydro-Turbine With Surge Tank. *Gil-Gonzalez, W.J.*, +, *TPWRS May 2020 2002-2011*

Small-Disturbance Voltage Stability of Power Systems: Dependence on Network Structure. *Huang, W.*, +, *TPWRS July 2020 2609-2618*

Voltage source inverters

A Robust H_{∞} Multivariable Stabilizer Design for Droop Based Autonomous AC Microgrid. *Sharma, R.K.*, +, *TPWRS Nov. 2020 4369-4382*

Voltage-source converters

A Parameter Alternating VSG Controller of VSC-MTDC Systems for Low Frequency Oscillation Damping. *Wang, W.*, +, *TPWRS Nov. 2020 4609-4621*

Admittance-Based Stability Analysis: Bode Plots, Nyquist Diagrams or Eigenvalue Analysis?. *Fan, L.*, +, *TPWRS July 2020 3312-3315*

Assessing the Impact of VSC-HVDC on the Interdependence of Power System Dynamic Performance in Uncertain Mixed AC/DC Systems. *Mochamad, R.F.*, +, *TPWRS Jan. 2020 63-74*

Automated Corrective Actions by VSC-HVDC-Systems: A Novel Remedial Action Scheme. *Sass, F.*, +, *TPWRS Jan. 2020 385-394*

Distributed Control of VSC-MTDC Systems Considering Tradeoff Between Voltage Regulation and Power Sharing. *Wang, Z.*, +, *TPWRS May 2020 1812-1821*

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. *Guo, L.*, +, *TPWRS May 2020 2300-2312*

Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A.*, +, *TPWRS May 2020 1796-1804*

PLL and Additional Frequency Control Constituting an Adaptive Synchronization Mechanism for VSCs. *Zhang, M.*, +, *TPWRS Nov. 2020 4920-4923*

W

Weibull distribution

Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes. *Shim, J.W.*, +, *TPWRS Nov. 2020 4655-4665*

Wind energy conversion

Design of Resonance Damper for Wind Energy Conversion System Providing Frequency Support Service to Low Inertia Power Systems. *Manaz, M.A.M.*, +, *TPWRS Nov. 2020 4297-4306*

Stability Analysis on Torsional Interactions of Turbine-Generator Connected With DFIG-WECS Using Admittance Model. *Velupula, S.*, +, *TPWRS Nov. 2020 4745-4755*

Wind farms

Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation. *Lyu, X.*, +, *TPWRS Nov. 2020 4956-4959*

Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent. *Guo, Y.*, +, *TPWRS Nov. 2020 4505-4517*

Method for Determining the Droop Coefficients of Hybrid Multi-Terminal HVDC Systems to Suppress AC Voltage Fluctuations. *Lee, G.*, +, *TPWRS Nov. 2020 4944-4947*

Wind forecasting

Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. *Park, B.*, +, *TPWRS Nov. 2020 4324-4334*

Wind power

Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*

Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*

Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*

The IEEE Reliability Test System: A Proposed 2019 Update. *Barrows, C.*, +, *TPWRS Jan. 2020 119-127*

Wind power generation

Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *Cao, Y.*, +, *TPWRS Nov. 2020 4908-4911*

Concurrent Optimal Re/Active Power Control for Wind Farms Under Low-Voltage-Ride-Through Operation. *Lyu, X.*, +, *TPWRS Nov. 2020 4956-4959*

Day-Ahead Contingency-Constrained Unit Commitment With Co-Optimized Post-Contingency Transmission Switching. *Saavedra, R.*, +, *TPWRS Nov. 2020 4408-4420*

Generation Capacity Expansion Considering Reserve Provision by Wind Power Units. *Canas-Carreon, M.*, +, *TPWRS Nov. 2020 4564-4573*

Optimal Power Flow Models With Probabilistic Guarantees: A Boolean Approach. *Lejeune, M.A.*, +, *TPWRS Nov. 2020 4932-4935*

Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. *Park, B.*, +, *TPWRS Nov. 2020 4324-4334*

Rotor Angle Stability Prediction of Power Systems With High Wind Power Penetration Using a Stability Index Vector. *Chen, Y.*, +, *TPWRS Nov. 2020 4632-4643*

Stochastic Eigen-Analysis of Electric Power System With High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes. *Shim, J.W.*, +, *TPWRS Nov. 2020 4655-4665*

Wind power plants

A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*

A Generic Convex Model for a Chance-Constrained Look-Ahead Economic Dispatch Problem Incorporating an Efficient Wind Power Distribution Modeling. *Khorramdel, B.*, +, *TPWRS March 2020 873-886*

A Linear Inertial Response Emulation for Variable Speed Wind Turbines. *Azizipanah-Abarghoee, R.*, +, *TPWRS March 2020 1198-1208*

Adaptable System Integrity Protection Scheme Considering Renewable Energy Sources Output Variations. *Lopez, J.A.*, +, *TPWRS Sept. 2020 3459-3469*

An Adaptive Bilevel Programming Model for Nonparametric Prediction Intervals of Wind Power Generation. *Zhao, C.*, +, *TPWRS Jan. 2020 424-439*

An Endogenous Approach to Quantifying the Wind Power Reserve. *Huang, H.*, +, *TPWRS May 2020 2431-2442*

Analytical Reformulation for Stochastic Unit Commitment Considering Wind Power Uncertainty With Gaussian Mixture Model. *Yang, Y.*, +, *TPWRS July 2020 2769-2782*

Chance Constrained Extreme Learning Machine for Nonparametric Prediction Intervals of Wind Power Generation. *Wan, C.*, +, *TPWRS Sept. 2020 3869-3884*

Characterization of Subsynchronous Oscillation with Wind Farms Using Describing Function and Generalized Nyquist Criterion. *Xu, Y.*, +, *TPWRS July 2020 2783-2793*

Coherency Identification for Wind-Integrated Power System Using Virtual Synchronous Motion Equation. *Liu, J.*, +, *TPWRS July 2020 2619-2630*

Data-Driven Regulation Reserve Capacity Determination Based on Bayes Theorem. *Liu, L.*, +, *TPWRS March 2020 1646-1649*

Deliverable Flexible Ramping Products Considering Spatiotemporal Correlation of Wind Generation and Demand Uncertainties. *Fang, X.*, +, *TPWRS July 2020 2561-2574*

Distributed Risk-Limiting Load Restoration for Wind Power Penetrated Bulk System. *Zhao, J.*, +, *TPWRS Sept. 2020 3516-3528*

Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *Mahish, P.*, +, *TPWRS Jan. 2020 362-373*

Distributionally Robust Chance-Constrained Generation Expansion Planning. *Pourahmadi, F.*, +, *TPWRS July 2020 2888-2903*

Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*

Equipment-Level Locating of Low Frequency Oscillating Source in Power System With DFIG Integration Based on Dynamic Energy Flow. *Ma, J.*, +, *TPWRS Sept. 2020 3433-3447*

Fast Cumulant Method for Probabilistic Power Flow Considering the Non-linear Relationship of Wind Power Generation. *Lin, C.*, +, *TPWRS July 2020 2537-2548*

Feature-Driven Improvement of Renewable Energy Forecasting and Trading. *Munoz, M.A.*, +, *TPWRS Sept. 2020 3753-3763*

Flexible Operation of Retrofitted Coal-Fired Power Plants to Reduce Wind Curtailment Considering Thermal Energy Storage. *Wang, Y.*, +, *TPWRS March 2020 1178-1187*

Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*

Identification of Generalized Short-Circuit Ratio for On-Line Stability Monitoring of Wind Farms. *Huang, L.*, +, *TPWRS July 2020 3282-3285*

Improved Deep Mixture Density Network for Regional Wind Power Probabilistic Forecasting. *Zhang, H.*, +, *TPWRS July 2020 2549-2560*

Modal Shift Evaluation and Optimization for Resonance Mechanism Investigation and Mitigation of Power Systems Integrated With FCWG. *Luo, J.*, +, *TPWRS Sept. 2020 4046-4055*

Modeling Electrical Grid Resilience Under Hurricane Wind Conditions With Increased Solar and Wind Power Generation. *Watson, E.B.*, +, *TPWRS March 2020 929-937*

Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*

On the Reduction of the Rated Power of Energy Storage System in Wind Farms. *Koiwa, K.*, +, *TPWRS July 2020 2586-2596*

Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A.*, +, *TPWRS May 2020 1796-1804*

Partition-Combine Uncertainty Set for Robust Unit Commitment. *Zhang, M.*, +, *TPWRS July 2020 3266-3269*

Preventive-Corrective Coordinated Transient Stability Dispatch of Power Systems With Uncertain Wind Power. *Yuan, H.*, +, *TPWRS Sept. 2020 3616-3626*

Robust Distributed Coordination of Parallel Restored Subsystems in Wind Power Penetrated Transmission System. *Zhao, J.*, +, *TPWRS July 2020 3213-3223*

Scenario-Wise Distributionally Robust Optimization for Collaborative Intermittent Resources and Electric Vehicle Aggregator Bidding Strategy. *Hajebrahimi, A.*, +, *TPWRS Sept. 2020 3706-3718*

Small-Signal Stability Limit of a Grid-Connected PMSG Wind Farm Dominated by the Dynamics of PLLs. *Du, W.*, +, *TPWRS May 2020 2093-2107*

Stabilizing Controls for Wind Generators Participating in Transmission V/Q Support. *Souxes, T.*, +, *TPWRS Sept. 2020 3627-3635*

Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*

Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z.*, +, *TPWRS Sept. 2020 4056-4066*

Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions. *Li, Y.*, +, *TPWRS Jan. 2020 109-118*

Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. *Gu, H.*, +, *TPWRS July 2020 3065-3077*

Wind turbines

A Dynamic Coordination Control Architecture for Reactive Power Capability Enhancement of the DFIG-Based Wind Power Generation. *Ghosh, S.*, +, *TPWRS July 2020 3051-3064*

A Linear Inertial Response Emulation for Variable Speed Wind Turbines. *Azizipanah-Abarghoee, R.*, +, *TPWRS March 2020 1198-1208*

An Applicable Method to Improve Transient and Dynamic Performance of Power System Equipped With DFIG-Based Wind Turbines. *Eshkaftaki, A.A.*, +, *TPWRS May 2020 2351-2361*

An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *Yu, S.S.*, +, *TPWRS July 2020 2670-2682*

- Coherency Identification for Wind-Integrated Power System Using Virtual Synchronous Motion Equation. *Liu, J.*, +, *TPWRS July 2020 2619-2630*
- Design of Resonance Damper for Wind Energy Conversion System Providing Frequency Support Service to Low Inertia Power Systems. *Manaz, M.A.M.*, +, *TPWRS Nov. 2020 4297-4306*
- Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent. *Guo, Y.*, +, *TPWRS Nov. 2020 4505-4517*
- Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. *Mahish, P.*, +, *TPWRS Jan. 2020 362-373*
- Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. *Li, W.*, +, *TPWRS March 2020 1606-1617*
- Generation Capacity Expansion Considering Reserve Provision by Wind Power Units. *Canas-Carreton, M.*, +, *TPWRS Nov. 2020 4564-4573*
- Global Optimization of Offshore Wind Farm Collection Systems. *Perez-Rua, J.*, +, *TPWRS May 2020 2256-2267*
- Identification of Generalized Short-Circuit Ratio for On-Line Stability Monitoring of Wind Farms. *Huang, L.*, +, *TPWRS July 2020 3282-3285*
- Nonlinear SSR Damping Controller for DFIG Based Wind Generators Interfaced to Series Compensated Transmission Systems. *Karunanayake, C.*, +, *TPWRS March 2020 1156-1165*
- Parameter Estimation of Wind Turbines With PMSM Using Cubature Kalman Filters. *Gonzalez-Cagigal, M.A.*, +, *TPWRS May 2020 1796-1804*
- Probabilistic Preassessment Method of Parameter Identification Accuracy With an Application to Identify the Drive Train Parameters of DFIG. *Jin, Y.*, +, *TPWRS May 2020 1769-1782*
- Synergistic Frequency Regulation Control Mechanism for DFIG Wind Turbines With Optimal Pitch Dynamics. *Prasad, R.*, +, *TPWRS July 2020 3181-3191*
- Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. *Chu, Z.*, +, *TPWRS Sept. 2020 4056-4066*
- Two-Stage Variable Proportion Coefficient Based Frequency Support of Grid-Connected DFIG-WTs. *Peng, X.*, +, *TPWRS March 2020 962-974*
- Wind in Weak Grids: Low-Frequency Oscillations, Subsynchronous Oscillations, and Torsional Interactions. *Li, Y.*, +, *TPWRS Jan. 2020 109-118*