

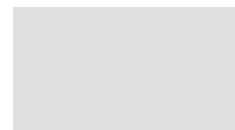


SCRISOARE DE MOTIVARE

pentru susținerea candidaturii pentru mandatul de membru în Senatul Universității de Vest din Timișoara Facultății de Matematică și Informatică

Subsemnatul, Găianu Mihail, prin prezenta doresc să vă prezint candidatura la funcția de membru în Senatul Universității de Vest din Timișoara, pentru mandatul 2024–2028.

Sunt absolvent al Facultății de Matematică și Informatică, din cadrul Universității de Vest din Timișoara. Unul din motivele candidaturii mele îl reprezintă dorința de a aduce simplitate, transparență, eficiență și rigurozitate în activitățile desfășurate în cadrul universității. Totodată, consider că mă caracterizează seriozitatea, perseverența, lucrul bine făcut și atitudinea pozitivă în față provocărilor și a vieții, în general. Întotdeauna voi susține că cinstea și sinceritatea primează în fața corectitudinii politice și a fățărniciei contextuale. Îmbunătățirea profesională în activitatea didactică, în învățământul universitar, reprezintă o altă dimensiune a crezului meu academic. Ca și obiective, îmi propun să sprijin demersurile făcute de conducerea UVT în vederea atingerii scopurilor strategice și operaționale stabilite, precum și respectarea normelor de asigurare a calității, a eticii și a bunei conduite universitare dar și colaborarea cu industria de profil.



PERSONAL INFORMATION



Mihail GĂIANIU

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Consiliul Facultății de Matematică și Informatică, Universitatea de Vest din Timșoara 2020-2024

POSITION RELATED TO WORK EXPERIENCE

Senatul Universitatea de Vest din Timșoara 2020-2024

Membru în Comitetul Național pentru Știință, Tehnologie și Inovare (CNSTI) din cadrul Ministerului Cercetării, Inovării și Digitalizării 2023-prezent

WORK EXPERIENCE

February 2015 - present

Senior Lecturer

West University of Timisoara, Faculty of Mathematics and Computer Science, Computer Science Department, Vasile Parvan Bd., no. 4, Timisoara, Timis, Romania, (www.info.uvt.ro)

Teaching activity (Lectures): Basics of Informatics, Graphics and User Interfaces, Processing Systems in Real Time, Computer Networks, Image Processing.

Coordinator of Bachelor thesis and Master thesis.

Participation and coordination of projects / grants.

Research activity: Computer Vision, Machine Learning, Parallel Computing

Business or sector Higher Education & Research

March 2010 – February 2015

Assistant Professor

West University of Timisoara, Faculty of Mathematics and Computer Science, Computer Science Department, Vasile Parvan Bd., no. 4, Timisoara, Timis, Romania, (www.info.uvt.ro)

Teaching activity (Lectures): Basics of Informatics, Graphics and User Interfaces, Processing Systems in Real Time, Computer Networks, Image Processing.

Teaching activity (Seminars & Laboratories): Basics of Informatics, Graphics and User Interfaces, Processing Systems in Real Time, Computer Networks, Image Processing, Web Technologies, Security and Cryptography, Individual Project, Computer Architecture, Team Project.

Coordinator of Bachelor thesis and Master thesis.

Participation and coordination of projects / grants.

Research activity: Computer Vision, Machine Learning, Parallel Computing

Business or sector Higher Education & Research

February 2008 – February 2010

Junior Assistant Professor

West University of Timisoara, Faculty of Mathematics and Computer Science, Computer Science Department, Vasile Parvan Bd., no. 4, Timisoara, Timis, Romania, (www.info.uvt.ro)

Teaching activity (Seminars & Laboratories): Programming, Computer Networks, Image Processing,

Web Technologies, Security and Cryptography, Individual Project, Computer Architecture, Team Project, Management of Informatics Systems, Computational Analysis.
 Participation and coordination of projects / grants.
 Research activity: Computer Vision, Machine Learning, Parallel Computing
Business or sector Higher Education & Research

September 2017 – present

Software developer

Continental Automotive Romania, str. Siemens, no. 1, Timisoara, Timis, Romania, (www.continental.com)

EDUCATION AND TRAINING

2008 – 2011 **PhD. in Mathematics**

West University of Timisoara, Faculty of Mathematics and Computer Science, Doctoral School in Mathematics, Vasile Parvan Bd., no.4, Timisoara, Timis, Romania (www.doctorat.uvt.ro)

2007-2009 **Department of Teacher Training , Level II**

West University of Timisoara, Department of Teacher Training, Vasile Parvan, no. 4, Timisoara, Timis, Romania (www.ddpd.uvt.ro)

Acces for teaching at upper secondary and tertiary levels.

2007-2009 **Master in Artificial Intelligence and Distributed Computing**

West University of Timisoara, Faculty of Mathematics and Science, Vasile Parvan Bd., no. 4 Timisoara, Timis, Romania (www.info.uvt.ro)

2003-2007 **Department of Teacher Training , Level I**

West University of Timisoara, Department of Teacher Training, Vasile Parvan, no. 4, Timisoara, Timis, Romania (www.ddpd.uvt.ro)

Acces for teaching at primary and lower secondary levels.

2003-2007 **Bachelor's in Mathematics and Computer Sciences**

West University of Timisoara, Faculty of Mathematics and Computer Science, Vasile Parvan Bd., no. 4 Timisoara, Timis, Romania (www.info.uvt.ro)

July 2007 – July 2011

High School Graduation Diploma and Bacalaureate Certificate

National College "Gheorghe Lazar", Sibiu, Romania

Computer Science Programme

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

	Proficient user				
German	A2	A2	A2	A2	A2
	Basic user				
Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages					

Communication skills Team spirit, ability to adapt to multicultural environments, good communication skills, good negotiator - acquired in teaching activities carried out from West University of Timișoara in collaboration with colleagues and students in the teaching and scientific activities undertaken in the country and abroad. Also these skills were acquired in the context of student activities as advisor and student senator at the West University of Timișoara, and in the ASSET student organization as director of projects.

Organisational / managerial skills Leadership, organizational skills, good experience of project and team management acquired as project manager at the West University of Timisoara, R&B Consulting S.R.L. and Continental Automotive Romania, respectively.

Program/Project	Period
XReco is a Horizon Europe Innovation Project co-financed by the EC under Grant Agreement ID: 101070250.	2022-2025
Proiect Contidigital Vest 145670	2021-2022
FDI-0098	2018
18/SGU/PV/ROSE-WEST	2018
POSDRU/159/1.5/S/140863	2014-2015
Profesionalism pe piața muncii în Regiunea de Vest - R&B Consulting S.R.L.	2014-2015
POS DRU Grant – Host - FP7-REGPOT-CT-2011-284595-HOST	2012-2014
Assisted Methods in Mathematical Models (ACAMIMM) – ERA/2011/IP/W/0028	2011-2013

Job-related skills Mathematical skills acquired during the training, consisting of mathematical terms and concepts including the most relevant theorems of geometry and algebra, mathematical differentiation of different types of sentences (something is an assertion or assumption, etc), understanding the scope and limitations of a given concept knowledge of what is (or is not) a demonstration, mathematical proof. Teaching skills, teaching subjects formed as a result of programming, computer networks, security and cryptography, information systems management etc. at the Faculty of Mathematics and Computer Science, University of Timisoara, consisting of:

- capacity to know and understand the subject of education;
- ability to stimulate the creativity necessary for adapting to the new conditions arising during the ongoing educational / training actions;
- capacity to link the educational reality with the specific general intelligence;
- knowledge and ability to understand the student as intellectual, affective, motivational, volitional, reality;
- capacity of information transmission to different levels of understanding and applications exploited in a priority and formative way.

Computer skills Competence in using computers effectively in all categories of peripheral interconnection with their adaptable, efficient use of programs and developed for industrial processes, business processes, human processes and socio-cultural processes involving and using the computer. These skills were acquired through initial training as a computer analyst and programmer experience as well as professor and researcher in the Faculty of Mathematics and Computer Science, at West University of Timisoara.

Other skills During the period of general education, taking part to special classes I acquired skills in ballroom dance and painting history that later turned into hobbies. In the same formative way I can mention a good knowledge of classical music as well as of the main values from musical, composing and performing field. Also, as a hobby I consider the perennial values of art and culture like painting, sculpture, photography, ballet, opera, symphonic music, popular music, different genres of pop, rock, literature etc.

Driving licence European driving license. B category

ADDITIONAL INFORMATION

Publication and conferences:

Articles in ISI journals:

- Gaianu M., Cristescu G., Onchis D. M., A Novel Method for Quantification of Facial Palsy, *International Journal of Computers, Communications & Control*, 8(2013):416-424, June, 2013;
- Gaianu M., Onchis D. M., Face and marker detection using Gabor frames on GPUs, *Signal Processing*, Volume 96, Part A, March 2014, 90-93;
- Ground Truth Data Generator for Eye Location on Infrared Driver Recordings, *Journal of Imaging*, 7(9), 162; <https://doi.org/10.3390/jimaging7090162>, 2021

Articles in journals B+ and in international databases:

- Cristescu, G., Gaianu, M., Shape properties of Noor's convex sets, *Proceedings of the Twelfth Symposium of Mathematics and its Applications*, Timi soara, November 5-7, 2009, 91-100.
- Gaianu, M., Didactical software for teaching image processing using fast Fourier transformation, *Proceedings of the Twelfth Symposium of Mathematics and its Applications*, Timi soara, November 5-7, (2009), 344-349;
- Cristescu, G., Gaianu, M., Detecting the non-convex sets with Youness and Noor types convexities, *Buletinul Stiintific al Universitatii "Politehnica" din Timi soara, Seria Matematica-Fizica*, 55(69), 1, 2010, 20-27;
- Cristescu, G., Gaianu, M., Computer aided optimization techniques based on generalized convex maps, *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, X(XX), 1, (2011), 3.34-3.39;
- Gaianu, M., Detecting and tracking markers on a human face, *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, X(XX), 1,(2011), 3.49-3.54;
- Onchis, D.M., Gaianu, M., Ovidiu V., Pipeline Analyzer using the Fractional Fourier Transform for Engine Control and Satellites Data , *Analele Universitatii Eftimie Murgu din Resita*, XVIII, NR. 2, (2011), 84-90;1
- Gaianu, M., Cristescu, G., Restricted Oriented Slack Convexity and Extremal Elements with Respect to a Set, *Analele Universitatii de Vest, Timi soara, Seria Matematica Informatica*, L, 1,(2012),27-37.
- Gaianu, M., Restricted directional approximations of some generalized convexity properties, *Annals of the Tiberiu Popoviciu Seminar, Functional Equations, Approximation and Convexity*, vol.10, 2012, 61-72;
- Gaianu, M., Directional best approximation with respect to a set, *Buletinul Stiintific al Universitatii Politehnica din Timisoara, Seria Matematica - Fizica*,57(71), 2, 2012.
- Onchis, D, M., Frunzaverde, D., Gaianu, M., Ciubotariu, R, Multiphase Identification in Microstructures Images Using a GPU Accelerated Fuzzy C-Means Segmentation, *2014 16th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2014, Timisoara*, (2014), 600-606.

Presentations at conferences:

- I. A. Tarba, M. Gaianu, S. A. Stefaniga, *The Driver's Attention Level*, 2020 22nd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2020, pp. 251-258, doi: 10.1109/SYNASC51798.2020.00048
- S. Stefaniga and M. Gaianu, *An Approach of Segmentation Method Using Deep Learning for CT Medical Images*, 2019 21st International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2019, pp. 273-279, doi: 10.1109/SYNASC49474.2019.00045.
- Debora Gil, Antonio Esteban Lansaue, Sebastian Stefaniga, Mihail Gaianu, Carles Sanchez, *Data Augmentation from Sketch*, International Workshop CLIP 2019, held in conjunction with MICCAI 2019, Shenzhen, China, October 17, 2019 (Vol. 11840, pp. 155-162), DOI: 10.1007/978-3-030-32689-0_16
- Sebastian-Aurelian Ștefăniță, Mihail Găianu, *Face detection and recognition methods using deep learning in autonomous driving*, *Proceedings of 20th International Symposium on Symbolic and Numeric Algorithm for Scientific Computing*, 2018, DOI: 10.1109/SYNASC.2018.00060;
- Sebastian-Aurelian Ștefăniță, Mihail Găianu, *Performance analysis of morphological operation in CPU and GPU for medical images*, *Proceedings of 19th International Symposium on Symbolic and Numeric Algorithm for Scientific Computing*, 2017, DOI: 10.1109/SYNASC.2017.00068.
- Generalized Convexity and Monotony Conference, Cluj Napoca, 22-28 august 2011.
- Annual Session of Scientific Papers IMT ORADEA - 2011, Oradea, Felix Spa, May 26-28th, 2011;
- Spring School on Mathematics and Computer-Aided Modeling in Sciences, Szeged - Novi Sad, 2011;
- Pannonian Mathematical Modelling International Conference (PAMM2011), Faculty of Sciences, University of Novi Sad, Department of Mathematics and Informatics, Novi Sad, April 29-30, 2011;

- The the 6th Austrian Numerical Analysis Day Department of Mathematics, University of Salzburg, Austria, 6-7 May 2010;
- Proceedings of the 12th Symposium of Mathematics and its Applications, "Politehnica" University of Timisoara, November, 5-7, 2009;

Honour and awards

- Gold Medal for the 7th International Computer Project Competition 2009 INFOMATRIX, In Bucharest, Romania in 24-27 April 2009 to prepare a team of students from the Faculty of Mathematics and Computer Science.
- Gold Medal for the 8th International Computer Project Competition 2010 INFOMATRIX, In Bucharest, Romania in 23-26 April 2010 to prepare a team of students from the Faculty of Mathematics and Computer Science.

Organizing committee:

- 7th Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2023
- 6th Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2022;
- 5th Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, December 2021;
- 4th Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2020;
- 3rd Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2019;
- 2nd Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2018;
- 1st Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2017;
- .7th international conference of differential geometry and it's applications of the Tensor society (Timisoara, 23-27 august 2004).
- Computational Topology in Image Processing(CTIC) within the conference SYNASC 2014 (Timisoara, 22-25 September 2014).

Summer Schools and Scholarships:

- Erasmus scholarship from the period 1 February to 31 July 2010, at Pattern Recognition and Image Processing Group at Technical University of Vienna.
- Appointed by the Faculty of Mathematics and Computer Science from the West University of Timisoara as a ERASMUS coordinator in the project: Computer Assisted Analytical Methods in Mathematical Models (ACAMIMM);
- Advanced Intensive Course and Workshop on Computational Algebraic Topology Applied to Medical Imagery held in Chipiona (Cadiz, Spain), October 2011.
- Erasmus and SEE grant's of teaching in different countries: Spain, Norway, Germany, Kazakhstan, Uzbekistan, Republic of Moldova,

Posters:

- Sebastian-Aurelian Ștefăniță, Mihail Găianu, Poster Sessions, *Medical Image Processing using NVIDIA Deep Learning GPU Training System*, 10th Conference on Dynamical Systems Applied to Biology and Natural Sciences, Napoli, Italy, 3-6 February, 2019.

Contact persons:

Available upon request.



DECLARAȚIE

Subsemnatul, lector univ. dr. GĂIANU MIHAIL, candidat pentru un mandat de membru în Senatul Universității de Vest din Timișoara, prin prezenta, declar pe proprie răspundere ca nu am fost lucrător sau colaborator al Securității.

Timișoara,

16.11.2023

