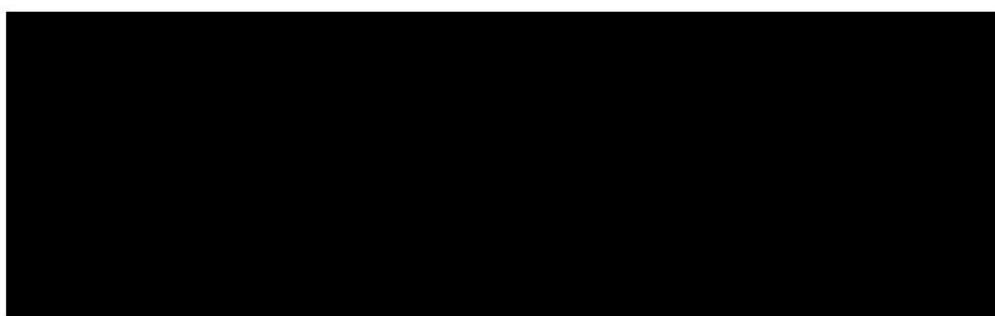


PERSONAL INFORMATION

Mihail GĂIANU



WORK EXPERIENCE

November 2017 - present

Software developer/ Project Manager

Continental Automotive Romania, street Seimens No. 1 Timisoara, Romania
 Research activity: Computer Vision, Machine Learning, Parallel Computing
 Business or sector Research

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

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 Baccalaureate Certificate

National College "Gheorghe Lazar", Sibiu, Romania

Computer Science Programme

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

English

German

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1
Proficient user				
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 Timișoara and R&B Consulting S.R.L., respectively.

Program/Project	Period
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	2012-2013
Assisted Methods in Mathematical Models (ACAMIMM) – ERA/2011/IP/W/0028	2011-2013
Director de proiect Contidigital POCU/861/3/12/145670 (in valoare de 2.062.865,83 lei)	Vest 2020-2023
Director de proiect EU XRECO HORIZON-CL4-2021-HUMAN-01-06 (in valoare de 570000Euro) 2022-2025	2022-2025
Membru Proiect EU ISOLDE HORIZON-KDT-JU-2022-1-IA (in valoare de 1,3mil Euro)	2023-2026
Director de proiect EU Horizon SMARTY HORIZON-KDT-JU-2023-1-IA-Focus-Topic-3 (in valoare de 1,4mil Euro)	2024-2027
Director de proiect EU Horizon 3DxVERSE DIGITAL-2023-CLOUD-AI-04-DEVELOPCITI (in valoare de 89000 Euro)	2024-2027

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.

Member in the council of the Faculty of Mathematics and Computer Science from 2020 until present. Member in the Senate of West University of Timișoara from 2020 until 2024.

President of ARCAS (ASOCIATIA ROMANA PENTRU PROMOVAREA METODELOR COMPUTATIONALE AVANSATE IN CERCETAREA STIINTIFICA) from 2022 until now.

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 Timișoara, 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 Timișoara.

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:

- Ivascu L., Vinatu V.-F., Gaianu M., Assessment of stereo and near infrared camera calibration technique using a novel real-time approach in the context of resource efficiency, Processes, Circular Economy and Efficient Use of Resources, Volume II, 2025. DOI: <https://doi.org/10.3390/pr13041198>
- Cristescu G., Awan M. U., Gaianu M., Refined Bounds of the Quantum Quadratures Within the Class of Distance-Disturbed Convex Functions in Two Dimensions, FILOMAT, Volume 33, Issue 3, 2019, pp. 825–836. DOI: <https://doi.org/10.2298/FIL1903825C>
- Găianu M., Onchis D. M., Face and marker detection using Gabor frames on GPUs, Signal Processing, Volume 96, Part A, 2014, pp. 90–93. DOI: Not available.
- Găianu M., Cristescu G., Onchis D. M., Erosion based Method for Quantification of Facial Palsy, International Journal of Computers, Communications & Control, Volume 8, 2013, pp. 416–424. DOI: Not available.
- Valcan S., Gaianu M., CUDA Implementation For Eye Location On Infrared Images, Scalable Computing: Practice and Experience, Volume 23, Issue 1, 2022, pp. 1–8. DOI: <https://doi.org/10.12694/scpe.v23i1.1954>
- Gaianu M., Detecting and tracking markers on a human face, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume X(XX), Issue 1, 2022, pp. 3.49–3.54. DOI: <https://doi.org/10.15660/AUOFMTE.2011-1.2126>
- Valcan S., Gaianu M., Ground Truth Data Generator for Eye Location on Infrared Driver Recordings, Journal of Imaging, Volume 7, Issue 9, 2021. DOI: <https://doi.org/10.3390/jimaging7090162>
- Cristescu G., Găianu M., Awan M. U., Regularity properties and integral inequalities related to $(k; h_1; h_2)$ -convexity of functions, Annals of West University of Timisoara – Mathematics and Computer Science, Volume 53, Issue 1, 2015, pp. 19–35. DOI: Not available.
- Gaianu M., Cristescu G., Restricted Oriented Slack Convexity and Extremal Elements with Respect to a Set, Annals of West University of Timisoara – Mathematics and Computer Science, Volume 50, Issue 1, 2012. DOI: <https://doi.org/10.2478/v10324-012-0002-7>
- Cristescu G., Gaianu M., Computer Aided Optimization Techniques Based on Generalized Convex Maps, Analele Universității de Vest Timișoara, Seria Matematică-Informatică, Volume L, Issue 1, 2011, pp. 27–37. DOI: <https://doi.org/10.15660/AUOFMTE.2011-1.2123>

- Onchis D. M., Gaianu M., Vasile O., Pipeline Analyzer using the Fractional Fourier Transform for Engine Control and Satellites Data, *Analele Universității "Eftimie Murgu" Reșița*, Volume XVIII, Issue 2, 2011. DOI: Not available.
- Cristescu G., Găianu M., Detecting the non-convex sets with Youness and Noor types convexities, *Buletinul Științific al Universității "Politehnica" din Timișoara, Seria Matematică-Fizică*, Volume 55(69), Issue 1, 2010, pp. 20–27. DOI: Not available.
- Cristescu G., Găianu M., Shape properties of Noor's convex sets, *Proceedings of the Twelfth Symposium of Mathematics and its Applications*, Timișoara, November 5–7, 2009, pp. 91–100. DOI: Not available.
- Cristescu G., Noor M. A., Awan M. U., Gaianu M., Integral inequalities for (Orlicz, Breckner) co-ordinated convex functions on rectangles, *Annals of West University of Timisoara – Mathematics and Computer Science*, 2015, pp. 17–28. DOI: Not available.

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 Lansaque, 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:

- 8th Special Session on Digital Image Processing for Medical and Automotive Industry in the framework of ICCI, September 2024;
- 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, September 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 its 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.
- Created new ERASMUS partnerships with Autonomia University of Barcelona, University of Extremadura, Technical University of Vienna.

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.

