FMI FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ

UNIVERSITATEA DE VEST DIN TIMIȘOARA

DEPARTAMENTUL DE INFORMATICĂ

Nr. Inregistrare *6095212021.11.03*

În atenția Biroului Electoral Central UVT

DOSAR de CANDIDATURĂ

pentru o poziție în Consiliul
Facutății de Matematică și Informatică

Candidat: Asist. Univ. Drd. Ștefănigă Sebastian-Aurelian
Departamentul de Informatică
Facultatea de Matematică şi Informatică

Blvd. V. Pârvan 4, 300223, Timişoara, România
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www.math.uvt.ro

SCRISOARE DE MOTIVARE
PENTRU SUSȚINEREA CANDIDATURII PENTRU MANDATUL DE MEMBRU AL CONSILIULUI FACULTĂȚII DE MATEMATICĂ ȘI INFORMATICĂ

Subsemnatul, Asist. univ. drd. Ștefănigă Sebastian-Aurelian, angajat al Universității de Vest în cadrul Departamentului de Informatică - Facultatea de Matematică și Informatică, prin prezenta doresc să vă aduc la cunoștință candidatura mea pentru obținerea unui mandat de membru al Consiliulului Facultății de Matematică și Informatică pentru perioada 2021-2024.

Activitatea desfășurată în Universitatea de Vest din Timișoara, a început în 2015, pe funcția de referent de specialitate în cadrul Departamentului de Cercetare, Oficiul de Transfer Tehnologic și Proprietate Intelectuală, iar activitatea didactică a debutat în anul 2016. În tot acest timp pe lângă activitatea didactică m-am implicat în diverse activități administrative și de cercetare, atât la nivelul facultății cât și la nivelul UVT.

Apreciez că întreaga mea activitate, conform CV-ului atașat, reflectă faptul că mi-am dezvoltat competențele profesionale necesare și m-am implicat cu succes în activitățile didactice și cele administrative de la nivelul Facultății de Matematică și Informatică.

Desfășurarea activităților specifice, pentru fiecare nivel organizatoric unde am fost implicat, consider că a fost marcată de urmărirea coagulării unui spirit de echipă, colegialitate, moralitate și etică profesională. De asemenea, consider că, modul în care am gestionat diversele responsabilități asumate până în acest moment, constituie o garanție că și în mandatul 2020-2024 pot să mă implic în desfășurarea unei activități performante în cadrul Facultății de Matematică și Informatică.

Din anul 2013 sunt membru evaluator al Agenția Română de Asigurare a Calității în Învățământul Superior, iar în perioada 2016-2020 am fost membru permanent al Comisiei de specialitate Științe Exacte și Științe ale Naturii, participând activ în misiuni de evaluare a programelor de studii de licență, master și doctorat la peste 30 de instiuții de învățământ superior din România. În toată această perioadă am cotribuit activ la revizuirea și elaborarea periodică, pe baza bunelor practici, a standardelor naționale de referință si a indicatorilor de performanță pentru evaluarea si asigurarea calității în învățământul superior.

Candidez pentru membru în Consiliului Facultății de Matematică și Informatică, cu credința că experiența dobândită mă va ajuta la îmbunătățirea activității care urmează să o desfășor în cadrul acestuia.

Ca viitor membru îmi propun să contribui la consolidarea culturii organizaționale democratice la nivelul facultății noastre, la dezvoltarea unui cadru legislativ coerent și transparent, la îmbunătățirea politicilor academice specifice mediului nostru universitar.

Dintre principiile și valorile care m-au ghidat în activitatea mea fac parte:

- claritate, transparența și coerență în privința regulilor și a normelor stabilite, a documentelor de politici academice și a acțiunilor întreprinse;
- promovarea principiului meritului dar și a principiului echității, cu respect pentru diversitatea și complementaritatea domeniilor de cercetare și de formare din UVT.

Sunt convins că numai împreună, Conducerea FMI, cadrele didactice, personalul administrativ precum și studenții, putem să menținem FMI în topul celor mai căutate facultăți, creând prin deciziile noastre, din FMI un loc de muncă dinamic, prosper academic și social.

Dragi colegi, vă rog să primiți expresia întregii mele considerații!

Timișoara, Ștefănigă Sebastian-Aurelian

03.11.2021

PERSONAL INFORMATION

Sebastian-Aurelian ȘTEFĂNIGĂ

[redacted]

[redacted]

sebastian.stefaniga@e-uvt.ro

[redacted]

http://staff.fmi.uvt.ro/~sebastian.stefaniga

Sex Male | Date of birth [redacted] | Nationality [redacted]

WORK EXPERIENCE

February 2018 - present

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: Programming 1 (C language), Programming 2 (C++ language), Programming 3 (Java language), Web Design Basics, Web Teachnologies, Team Project, Security and Cryptography

Research activity: Computer Vision, Distributed Systems, HPC Computing, Machine Learning, Statistics, Parallel Computing

Business or sector Higher Education & Research

January 2021 – June 2021

Associate Assistant Professor

„Victor Babes" University of Medicine and Pharmacy Timisoara, Faculty of Medicine, Functional Sciences Department, Discipline of Informatics and Medical Biostatistics, Sp. Tudor Vladimirescu no. 14, Timisoara, Timis, Romania (www.umft.ro)

Teaching activity: Medical Informatics, Biostatistics
Research activity: Statistics
Business or sector Higher Education & Research

January 2020 – May 2020

Visiting Instructor

Computer Science, Sewanee, the University of the South, Mathematics and Computer Science Department, College of Art and Science (https://new.sewanee.edu/), Sewanee's J Program: P-1-04651, email: sastefan@sewanee.edu, 735 University Ave, Sewanee, TN 37383-1000, United States of America
Teaching activity: (CSCI 284) Database Design with Web Applications, (CSCI 415) Security and Cryptography
Business or sector Higher Education & Research

September 2019 – January 2020

Associate Assistant Professor

„Victor Babes" University of Medicine and Pharmacy Timisoara, Faculty of Medicine, Functional Sciences Department, Discipline of Informatics and Medical Biostatistics, Sp. Tudor Vladimirescu no. 14, Timisoara, Timis, Romania (www.umft.ro)

Teaching activity: Medical Informatics, Biostatistics
Research activity: Statistics
Business or sector Higher Education & Research

October 2016 – February 2018

Associate 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: Programming 1 (C language), Programming 2 (C++ language), Programming 3 (Java language), Web Design Basics
Business or sector Higher Education

August 2015 – October 2016

Consultant Specialist

West University of Timisoara, Vasile Parvan Bd., no. 4, Timisoara, Timis, Romania (www.uvt.ro)

Providing consultancy for service contracts, collaboration, licensing or assignment and consortia agreements between partners or beneficiaries from the private sector or non-profit industry. Supporting for the national and international patent application, collaboration with external specialized consultants. Development of the potential international network of industrial partners for the purpose of research grant applications.

Business or sector Higher Education, Innovation, Technology Transfer and Intellectual Property

February 2015 – July 2015

Consultant Specialist

West University of Timisoara, Vasile Parvan Bd., no. 4, Timisoara, Timis, Romania (www.uvt.ro)

Designing reports on scientific research and university creation. Implementation and maintenance of CMS university modules. Providing consultancy and support for research grant application. Identifying and disseminating calls for scientific research and academic creation grants.

Business or sector Higher Education & Research

February 2015 -- present

Lecturer

R&B Consulting S.R.L., Independentei Str, no. 2B, Timisoara, Timis, Romania, (www.cursuriadulti.ro)

Information Technology Training Courses: Microsoft Office Fundamentals & Advanced, Photo Editing and Processing, Operating Systems
Management Training Courses: Assistant Manager

Business or sector Training Courses

October 2014 – December 2014

System Software Engineer

R&B Consulting S.R.L., Independentei Str, no. 2B, Timisoara, Timis, Romania, (www.cursuriadulti.ro), detached at National College of Banat, Highschool, Timisoara, Timis, Romania, (www.colegiulbanatean.ro)
Network System Administrator
Business or sector Information and Communication Technology

April 2014 – August 2016

Vice President

National Union of the Romanian Students, Independetei Str., no. 290, Sector 6, Bucharest, Romania (www.unsr.ro)

ICT projects implementation and coordination and other activities of the Federation.
Coordinating ICT Federation Department.

Business or sector Voluntary service

May 2013 - present

Quality Assurance Student Assessor

Romanian Agency for Quality Assurance in Higher Education (www.aracis.ro)

External quality assurance of Higher Education Institutions, in Romania, with the aim of certification, according to the Romania Quality Standards as a representative of National Union of the Romanian Students.

Business or sector Quality Assurance in Higher Education & Research

May 2013 – March 2016

President

Exact Sciences Students Association of West University of Timisoara, Vasile Parvan Bd., no. 4, room 128 Timisoara, Timis, Romania (www.asseut.org)

Presides over meetings of the organization. Calls special meetings of the organization. Facilitates executive board meetings. Prepares and files any report required. Maintains contact with organization adviser. Maintain contact with alumni organization. Maintains contact with affiliated university department or community partner. Maintain contact with (inter)national organization. Represents the relationship between the organization and the university.

Business or sector Voluntary service

July 2013 – August 2013

Assistant Programmer

SC. Alfa Vision S.R.L., Timisoara, Timis, Romania, (www.alfavision.ro)

Web-Design, Graphics, SEO Optimization, Operating Systems, Software Development

Business or sector Internship. Information and Communication Technology

EDUCATION AND TRAINING

October 2021 – present

Master in Global Security Studies

West University of Timisoara, Faculty of Political Sciences, Philosophy and Communication Sciences, Vasile Parvan Blvd., no. 4, Timisoara, Timis, Romania, (www.pfc.uvt.ro)

October 2020 – September 2021

Master in Counseling and Educational Integration

West University of Timisoara, Faculty of Sociology and Pshicology, Vasile Parvan Blvd., no. 4, Timisoara, Timis, Romania, (www.fsp.uvt.ro)

Master Thesis: “Facilities and challenges of technological and digital Infrastructure at the beginning pandemic period in Romania”, scientific coordinator: Prof. Ph.D. Simona Sava

Relevant courses: Workflow Technologies, Multi-Agent Systems, Distributed Computing, Parallel Computing, Machine Learning, Systolic algorithms, Automated Proving of Theorems, Advanced Logic and Functional Programming

June 2020 – January 2021

Postgraduate Training Programme in Education Sciences – Problem-based Learning in Higher Education

Funded by the Romanian Operational Programme (OP) "Human Capital" - POCU/320/6/21/121030

West University of Timisoara, Academic Development Center, Vasile Parvan Blvd., no. 4, Timisoara, Timis, Romania, (www.cda.uvt.ro)

December 2019 – September 2020

Postgraduate Training Programme - UVT - Teaching and Learning Brand

Funded by the CNFIS - Institutional Development Fund - CNFIS-FDI-2019-0408

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

October 2018 – September 2020

Master in Educational Management and Curriculum Development

West University of Timisoara, Faculty of Sociology and Pshicology, Vasile Parvan Blvd., no. 4, Timisoara, Timis, Romania, (www.fsp.uvt.ro)

Master Thesis: “Teaching & Learning Brand UVT - a new vision for teaching and learning Computer

Science in Higher Education", scientific coordinator: Asoc. Prof. Ph.D. Marian Ilie

Relevant courses: Workflow Technologies, Multi-Agent Systems, Distributed Computing, Parallel Computing, Machine Learning, Systolic algorithms, Automated Proving of Theorems, Advanced Logic and Functional Programming

October 2016 - present

Ph.D. Student in Computer Science

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

Supervisor: Prof. PhD. Dana Petcu, West University of Timisoara, Romania
Co-supervisor: Prof. Ph.D. Debora Gil, Autonomous University of Barcelona, Spain
Courses: Cloud computing, Scientific writing and research project management, Special chapters of Artificial Intelligence
Dissertation Title: Contributions to High Performance of Biomedical Image Algorithms
Research interests: Computer Vision, Distributed Systems, HPC Computing, Machine Learning, Statistics, Parallel Computing, Deep Learning, Machine Learning, Neural Networks

March 2015 - June 2015

Department of Teacher Training , Level II

Polytechnic University of Timisoara, Department of Teacher Training , Bd. Vasile Parvan, no. 2 Timisoara, Timis, Romania (www.upt.ro)

Acces for teaching at upper secondary and tertiary levels.

July 2014 - present

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)

Master Thesis: "Methods of processing and morphological analysis of biomedical images in real time", scientific coordinator: Assist. Prof. Ph.D. Mihail Gaianu

Relevant courses: Workflow Technologies, Multi-Agent Systems, Distributed Computing, Parallel Computing, Machine Learning, Systolic algorithms, Automated Proving of Theorems, Advanced Logic and Functional Programming

October 2012 – July 2014

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.

June 2011 – July 2014

Bachelor's in Applied Computer Science

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

Bachelor Thesis: "Objectual-Relational Mapping in Java Hibernate – Application for the management of medical institutions", scientific coordinator: Assoc. Prof. Ph.D. Victoria Iordan

Relevant courses: Artificial Intelligence, Distributed Systems, Operating Systems, Security and Cryptography, Graphics and User Interfaces, Java Programming, Programming C/C ++, Databases, Algorithms, Data Structures, Advanced Data Structures, Web Technologies, Programming real-time systems, Computer Architecture, Software Engineering, Networking Environments Design and Programming, Projects Management in Computer Science

April 2011

Certified Professional Skills in Computer Science

Banat High School, Republicii Str., no.10, Otelu Rosu, 325700, Caras-Severin, Romania

Advanced skills in Microsoft Office Suite, Oracle Databases and C++ Programming Language

Straight-A degree

July 2007 – July 2011

High School Graduation Diploma and Baccalaureate Certificate

Banat High School, Republicii Str., no.10, Otelu Rosu, 325700, Caras-Severin, Romania

Mathematics and Computer Science Programme
Grade point: 9.87/10

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
	Proficient user				
German	B2	B2	B1	B1	B2
	Independent user				
French	A2	B1	A2	A2	B1
	Basic user				

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

Communication skills Excellent communication skills gained through my past voluntary service experience.

Organisational / managerial skills Excellent teamwork and leadership skills gained through my involvement in extra-curricular activities as President and Vice president of student organizations between 2013-2016. From 2016 to 2018 I was member of the Council of Doctoral Studies of the West University of Timisoara.

Computer skills Programming languages & others: C/C ++, Java, JavaScript, HTML, CSS, PHP, Python, CUDAC/ C++, Oracle Database, Matlab;
Operating Systems: Windows, Unix, MacOS;
Graphics: Adobe Collection, Corel Collection, Sony Vegas.

Driving licence European driving license, B category

ADDITIONAL INFORMATION

Certifications / Qualifications:

- Certificate, Coaching methods and techniques in academic tutoring activities, 8 hours Course Certification funded by West University of Timisoara, Romania, International Association of Cognitive Behavioral Coaching, 13-14 November 2020, (https://www.iacbc.org) [online];
- Certificate, Periodic QA assessor training, Romanian Agency for Quality Assurance in Higher Education, March 2018;
- Certificate, Periodic QA assessor training, Romanian Agency for Quality Assurance in Higher Education, October 2017;
- Certificate, Periodic QA assessor training, Romanian Agency for Quality Assurance in Higher Education, March 2017;
- Qualification, QA assessor training, Romanian Agency for Quality Assurance in Higher Education, May 2013;
- Specialization Certificate, Expert in European Structural Funds and the Cohesion Fund, R&B Consulting S.R.L., July – September 2015;
- Refresher course, Entrepreneurial skills , R&B Consulting S.R.L., July – August 2015;
- Refresher course, Technology Transfer and Intelectual Property, Technical University of Cluj Napoca,

Romanian Institute of Science and Technology, Romania, May 2015;
- Specialization Certificate, Specialist in Occupational Safety and Health Administration, R&B Consulting S.R.L., December 2014 – March 2015 ;
- Specialization Certificate, Public Procurement Expert , R&B Consulting S.R.L., December 2014 - January 2015;
- Specialization Certificate, Trainer, R&B Consulting S.R.L., October 2014 - November 2014;
- Refresher course, BLS (Basic Life Support) Certificate, Medical Students Organisation Galati, Ambulance Service Support, Romania, August 2014;
- Refresher course, Project Manager, Core Fusion S.R.L., July - August 2014;
- Certificate, Management and Leadership, Regional Training Institute, Timisoara, Romania, May 2012;
- Certificate, Communication and Public Speaking si Discurs public, Regional Training Institute, Timisoara, Romania, May 2012;

Affiliation:
- Treasurer, Rotaract Club Timisoara, Romania, (http://www.rotaractclubtimisoara.ro), July 2020 – June 2021;
- IEEE Junior Member (IEEE Engineering in Medicine and Biology Society Membership, IEEE Computer Society Membership, https://www.ieee.org), November 2019 - present;
- Affiliate member, Romanian Association for the Promotion of the Advanced Computational Methods in Scientific Research – ARCAS (www.arcas.org.ro), President: Prof. PhD. Eng. Emil-Ioan Slusanschi, April 2019 - present;
- Affiliate member, Rotaract Club Timisoara, Romania, (http://www.rotaractclubtimisoara.ro), June 2019 - Present
- Affiliate member, Romanian Association for Artificial Intelligence, (http://aria-romania.org), President: Prof. PhD. Eng. Adina-Magda Florea, October 2018 - present;
- Affiliate member, Romanian Society of Medical Informatics (http://www.srimed.ro), Prof. PhD. Eng. Lacramioara Stoicu-Tivadar, January 2018 – present;
- Honorific President, Exact Sciences Students Association of West University of Timisoara, Romania, March 2016 – prezent;
- Member, Standing Committee of the Exact Sciences and Natural Sciences Specialty (C1), Romanian Agency for Quality Assurance in Higher Education (ARACIS) (www.aracis.ro), January 2017- present;
- Member, Council of Doctoral Studies, West University of Timisoara, Romania, October 2016 – October 2020;
- Affiliate Member, Council of Doctoral School of Mathematics, West University of Timisoara, Romania, October 2016 – October 2017;
- Affiliate member, National Union of the Romanian Students, Independetei Bd., no.290, Sector 6, Bucharest, Romania (www.unsr.ro) , October 2011 – present;
- Affiliate member, Exact Sciences Students Association of West University of Timisoara, Romania, October 2011 – March 2016;
- Member, Committee of Quality Assurance, Banat High School, Otelu Rosu, Caras-Severin, Romania, September 2009 – June 2011.

National/ International Conferences:
- RoMedINF 2021 - Digital Technology and Healthcare, 16-19 September 2021 [Online];
- 22nd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, September 2020, [Online];
- 21th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, September 2019;
- 10th Conference on Dynamical Systems Applied to Biology and Natural Sciences (DSABNS), Napoli, Italy, 3-6 February 2019;
- 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, September 2018;
- International Symposium Research and Education in an Innovation Era 7th Edition, 17-20 May, 2018;
- 9th Conference on Dynamical Systems Applied to Biology and Natural Sciences | DSABNS Feb. 7-9, 2018, Dipartimento di Matematica, Università di Torino, Italy;
- 19th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 2017;
- Anatomy National Congres, Lower Danube University, Galati, Romania, (http://ssmg.ro), Workshop on Hand Anatomy - Imagistic fudamental studies, May 2016;
- Scientific Student Research Days, “Constantin Brancusi” University, Tirgu-Jiu, Romania, (http://www.lsucb.ro/zcssucb), Faculty of Engineering, Automatics and Applied Informatics, April 2016;
- International Congres for Students, Pharmacists and Resident Physicians, Lower Danube University, Galati, Romania, November 2015;

- International Scientific Session for Students, “Constantin Brancusi” University, Tirgu-Jiu, Romania, (http://www.lsucb.ro), Economics Scientarium, December 2015.

Summer Schools/ Workshps:

- Problem Based-Learning (PBL) International Training, Maastricht University, Centre for International Cooperation in Academic Development (‘MUNDO’), The Netherlands, financed under „Together universities and employers. An integrated system of innovative educational programs” – POCU/320/6/21/121030, June 2021, supervisor MSc, MHPE Annechien Deelma [online];
- IBM workshop about Containers (OpenShift), 21-23 December 2020, Head Florin Anton (https://www.ibm.com/ro-en) [online];
- Romanian Artificial Intelligence Days 2020, 2-4 December 2020 (https://days.airomania.eu/home);
- European Computer Science Summit, 26-28 October 2020, (https://www.informatics-europe.org/ecss/program/schedule.html) [online];
- 16th International Summer School on Advanced Computer Architecture and Compilation for High-performance Embedded Systems (ACACES 2020), 6-17 July 2020, [Online], (https://www.hipeac.net/acaces/2020) [online];
- 3rd SME/HPC Summer School, 29 June – 01 July 2020, [Online], (https://www.smehpc.eu/summer-school) [online];
- Computing Systems Weeks- European Network on High Performance and Embedded Architecture and Compilation, Herklion, Greece, October 2018;
- 2nd International Summer School on Deep Learning 2018, 23-27 July 2018, Genova, Italy;
- International Symposium Research and Education in an Innovation Era 7th Edition, 17-20 May, 2018;
- 4th International Winter School on Big Data, Timisoara, Romania, January 22-26, 2018;
- Summer School on Programming and Tuning Massively Parallel (PUMPS-PRACE) 2017, Universitat Politècnica de Catalunya, Spain (http://bcw.ac.upc.edu/PUMPS2017), NVIDIA's CUDA, OpenCL and OpenACC programming, June 2017;
- Summer School on Image Processing in Medical Applications, Politehnica University of Bucharest, Romania, (http://imag.pub.ro/ssima2016/), Cardiac Imaging , July 2016;
- Summer School on Image Processing, University of Szeged, Informatics Institute, Hungary, with project “Bicycle detection at street crossings”, July 2015.

Grants:

- Team Member – Junior researcher, , Modernization of the computing and storage infrastructure of the Compputer Science Research Center of the West University of Timișoara for offering cloud services and high performance computing services - Modernizarea infrastructurii de calcul și stocare a Centrului de Cercetare în Informatica al Universității de Vest din Timișoara pentru oferirea de servicii de tip Cloud și servicii de calcul de înaltă performantă - MOISE", ID 124S62, funded under Competitiveness Operational Programme, April 2021 – June 2022
- Team Member – Junior Researcher, „Transparent application deployment in a secure, accelerated and cognitive Cloud continuum” (SERRANO), financed under Horizon 2020 nr. 101017168/2020, April 2021 – December 2023
- Team Member – Practice Stage Expert, Quality practice for a successful career, POCU/626/6/13, Manager Prof. PhD. Flavia Barna, November 2020 – July 2022;
- Team Member - Professor Tutor, Advice, Tutoring and Specific Training for efficient university education in the field of Mathematics And Computer Science, ROSE AG 389/SGU/SS/III, Manager Senn. Lect. PhD. Claudia Zaharia, october 2020 – august 2021;
- Team Member - Lecturer, Institutional Development through Internationalization for Everyone at the West University of Timisoara Project, CNFIS-FDI-2020-0498, Manager Senn. Lect. PhD. Oana Ivan, (https://ri.uvt.ro/west-university-of-timisoara-late-summer-school/), August 2020- November 2020;
- NVIDIA GPU Grant, Jetson TX2, July 2017, Leader - Sebastian-Aurelian Ștefănigă;
- Team member, Software Developer, Work Package 4 Leader - InnoHPC High-performance Computing for Effective Innovation in the Danube Region - InterReg - Danube Transnational Programme, February February 2017- June 2019, grant value: 2,054,600 Euro, DTP1-1-260-1.1, Local Manager, Prof. PhD. Viorel Negru (http://www.interreg-danube.eu/approved-projects/innohpc);
- Team member, Management of Alumni Students Communication in Higher Education Institutions in Romania, POSDRU/86/1.2/S/56283, October 2013 – December 2013, Manager National Union of the Romanian Students.

Mobilities:

- UBB, Babeș Bolyai University, Faculty of Mathematics and Computer Science, Deparment of Computer Science, Cluj Napoca, Romania, financed under „Together universities and employers. An integrated system of innovative educational programs” – POCU/320/6/21/121030, May 2021,

supervisor Dean, Prof. Phd. Anca Adreica;

- University Sponsor Program- Sewanee's J Program: P-1-04651, Visiting Instructor in Computer Science, Sewanee the University of the South, College of Arts and Sciences, Mathematics and Computer Science Department, United States of America, (www.new.sewanee.edu), January – May 2020;
- WUT International Research Visits, Grant CNFIS-FDI-2019-0108, Autonomous University of Barcelona, Spain, (www.cvc.uab.es) Computer Vision Center, 15-29 November 2019;
- Erasmus+, Autonomous University of Barcelona, Spain, (www.cvc.uab.es) Computer Vision Center, June-August, 2019;
- Erasmus+, University of Genoa, Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Italy, July, 2018;
- Erasmus+, Autonomous University of Barcelona, Spain, (www.cvc.uab.es) Computer Vision Center, June-August, 2017;
- Erasmus+, University of Azores, Ponta Delgada, Portugalia, Facultatea de Science and Technology, Research in Artificial Intelligence and Parallel Computing, Septembr 2017;
- Erasmus+, Las Palmas University, Gran Canaria, Spain, (www.ulpgc.es), Faculty of Informatics Engineering, Scientifica and Technolgic Center, January 2016;
- CEEPUS, University of Szeged, Institute of Informatics, Hungary, July 2015.

Invited speaker:

- The Future of Business – organisations meet digital technologies Embracing high performance computing: Using new technologies to improve organisations' processes, procedures, practices and profitability, Panel discussion, 6th October 2020, [Online] (https://www.smehpc.net)
- Meet(up) HPC: powering business growth, HPC in practice Growing a successful research-industry collaboration: IeAT Research Institute, 26th of May 2020, [Online] (https://www.smehpc.eu) ;
- StudIT - IT Scientific Student Session, *Cryptocurrency and Blockchain Technology*, 19th of May 2020, [Online];
- Inovation Caffee, High Performance Computing use in Digital Health, Bucharest, Romania, December 2018 (http://ed9.cafeneauadeinovare.ro/speakers.html).

Organizing committee:

- 22nd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 2020;
- 4th Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2020;
- 21th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 2019;
- 3nd Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2019;
- 27th Summer School on Image Processing, Timisoara, Romania, July 2019;
- National Students Olympiad in Informatics, 2019;
- 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 2018;
- 2nd Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2018;
- 3rd InnoHPC training: Capacity building for HPC providers and SMEs on High-performance Computing for Effective Innovation in the Danube Region, Timisoara, Romania, September, 2018;
- 2nd InnoHPC training: Capacity building for HPC providers and SMEs on High-performance Computing for Effective Innovation in the Danube Region, Podgorica, Muntenegru, June, 2018;
- 4th International Winter School on Big Data, Timisoara, Romania, January, 2018;
- 19th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 2017;
- 1st Workshop on Digital Image Processing for Medical and Automotive Industry in the framework of SYNASC, September 2017;
- InnoHPC High-performance Computing for Effective Innovation in the Danube Region in Science and Technology, September 2018.

ISI Journal Publications:

- L. R. Damian, R. Dumitrescu, D. Jumanca, R. S. Rosianu, A. Matichescu, O. Balean, A. Podariu, **S. A. Stefaniga**, A. Galuscan, Clinical Study Regarding the Property of Composite Resin, Sealants, using VISTACAM iX, Revista de Materiale Plastice, Vol. 56, no. 1, p. 138-143, martie, 2019, ISSN 0025 – 5289, http://www.revmaterialeplastice.ro/pdf/28%20DAMIAN%201%2018.pdf;
- C. Dumitru, N. C. Mlandin, M.Craina, I. Petre, L. C. Moleriu, R. Bardan, D. C. Bonte, E.Ungureanu, **S. A. Stefaniga**, R. Susan, E. Pop, N.Suciu, Can be Considerted the CA-125 and Neutrophil-to-lymphocyte Ratio Values as a Diagnostic Value in Ovarian Endometriosis?, Revista de Chimie, Vol. 69, no. 12, p. 3561-3565, decembrie, 2018, ISSN 0034-7752, http://www.revistadechimie.ro/article_eng.asp?ID=6792.

Other Journal Publications:

- Leyla Safta-Zecheria, **Sebastian-Aurelian Ștefănigă**, Ioana-Alexandra Negru, Francisca-Hortensia Virag, *Challenges experienced by teachers regarding access to digital instruments, resources, and competences in adapting the educational process to physical distancing measures at the onset of the COVID-19 pandemic in Romania*, Journal of Educational Sciences, vol. 21, no. 2, p. 69-86, december, 2020, ISSN 2457 – 8673, DOI 10.35923/JES.2020.2.05.
- Leyla Safta-Zecheria, **Sebastian-Aurelian Ștefănigă**, Ioana-Alexandra Negru, Francisca-Hortensia Virag, Anca Mărgineanu, *Învățarea colaborativă în cadrul unui proiectde cercetare-acțiune tutorat dezvoltat pentru a răspunde provocărilor impuse deșcoala online, Journal of pedagogy,* no. 1, 2021 – accepted for publication.

ISI Proceedings Publications:

- **S. A. Stefaniga**, *Methods of acceleration for feature extractions in medical imaging using GPU processing,* 2021 23rd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2021 – accepted for publication.
- 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.
- A A. Ionascu, **S. A. Stefaniga**, *DS Lab Notebook: A new tool for data science applications*, 2020 22nd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2020, pp. 310-314, doi: 10.1109/SYNASC51798.2020.00056.
- I. Petre, F. Barna, M. Craina, L. Moleriou, S. Iurciuc, V. Turi, I. Petre, **S. A. Stefaniga**, *Cost-Effectiveness Assessment of Surgical Treatment of Cervical Cancer*, Proceedings of the Annual Days of the National Institute for Mother and Child Health "Alessandrescu-Rusescu", 21-23 November 2019, Bucharest, Romania, p.416-420, ISBN 978-88-85813-86-1.
- I. Petre, F. Barna, A.V. Popescu, L. Moleriou, M. Craina, **S. A. Stefaniga**, *Cost-Effectiveness Assessment in the Early Detection of Risk for Preeclampsia*, Proceedings of the Annual Days of the National Institute for Mother and Child Health "Alessandrescu-Rusescu", 21-23 November 2019, Bucharest, Romania, p.416-420, ISBN 978-88-85813-86-1.
- A.V. Popescu, M. Craina, M. Popescu, P. Stelian, **S. A. Stefaniga**, E. V. Lăzureanu, A. C. Ilie, *Correlations Between the Characteristics of the Menstrual Cycle and the Risk of Endometriosis*, Proceedings of the XV Conference of The Romanian-German Society of Obstetrics and Gynecology and V National Congress of the Romanian Association of Menopause, 06-08 June 2019, Timișoara, Romania, p.416-420, ISBN 978-88-85813-76-2.
- **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.
- V. D. Chiriac, L. Stelea, M. Craina, C. Balasan, A. Fogarassy, **S. A. Stefaniga**, A. Furău, M. Salapa, Infectious Pathology in HSIL Lesions – Statistical Data, Proceedings of the 4th Congress of the Romanian Society for Minimal Invasive Surgery in Ginecology 2018, p.167-172, ISBN 978-88-85813-48-9;
- L. Stelea, M. Craina, C. Balasan, V. D. Chiriac, A. Fogarassy, **S. A. Stefaniga**, A. Furău, *Genital Infection of Human Papillomavirus: Incidence and Risk Factors in a Cohort in the Western Part of Romania – Babes Papanicolaou Test*, Proceedings of the 4th Congress of the Romanian Society for Minimal Invasive Surgery in Ginecology 2018, p.597-601, ISBN 978-88-85813-48-9
- L. Stelea, M. Craina, C. Balasan, V. D. Chiriac, A. Fogarassy, **S. A. Stefaniga**, A. Furău, *Can Inflammation Cause LSIL?*, Proceedings of the 4th Congress of the Romanian Society for Minimal Invasive Surgery in Ginecology 2018, p.602-607, 2018, ISBN 978-88-85813-48-9;
- L. Stelea, M. Craina, C. Balasan, V. D. Chiriac, A. Fogarassy, **S. A. Stefaniga**, A. Furău, *Infectious Factors Involved in the Occurrence of LSIL Lesions*, Proceedings of the 4th Congress of the Romanian Society for Minimal Invasive Surgery in Ginecology 2018, p.608-612, 2018, ISBN 978-88-85813-48-9;
- **Sebastian-Aurelian Ștefănigă**, 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 Ștefănigă**, 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.

Books/ Book Chapters:

- **Sebastian-Aurelian Ștefănigă**, *Chapter Transnational HPC Infrastructure in the Danube Region*,

GO WITH THE FLOW: High Performance Computing and Innovations in the Danube Region, p. 73-84, Vega Press Ltd., ISBN: 978-1-909736-11-5, http://www.interreg-danube.eu/uploads/media/approved_project_public/0001/33/e311b83b587d91d3cee39b5d12a8aaeaccc9171c.pdf;

- **Sebastian-Aurelian Ștefănigă**, Viorel Negru, Marius Mitroi, *Chapter HPC National Case Study in the Danube Region: Moldova, GO WITH THE FLOW: High Performance Computing and Innovations in the Danube Region*, p. 168-178, Vega Press Ltd., ISBN: 978-1-909736-11-5, http://www.interreg-danube.eu/uploads/media/approved_project_public/0001/33/e311b83b587d91d3cee39b5d12a8aaeaccc9171c.pdf;
- Elena Simion, Anamaria Farcasanu-Navar**, Sebastian-Aurelian Ștefănigă**, *Chapter HPC National Case Study in the Danube Region: Romania, GO WITH THE FLOW: High Performance Computing and Innovations in the Danube Region*, p. 168-178, Vega Press Ltd., ISBN: 978-1-909736-11-5, http://www.interreg-danube.eu/uploads/media/approved_project_public/0001/33/e311b83b587d91d3cee39b5d12a8aaeaccc9171c.pdf.

Abstracts:

- **S.A. Ştefănigă**, A.R. Asofroniei, *SmartRay–An AI-Based Module for Medical Images Processing*, Applied Medical Informatics 43, 28-28, 2021.
- **S.A. Ştefănigă**, *Fine-Tuned Medical Images Denoising using Median Filtering*, Applied Medical Informatics 43, 27-27, 2021.
- **S.A. Ştefănigă**, T. Florea, *VitaWise-AI-based Healthcare Application*, Applied Medical Informatics 43, 29-29, 2021.

Posters:

- **Sebastian-Aurelian Ștefănigă**, 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.

Awards/ Scholarships :

- Ambassador of IEEEXtreme 15.0 Competition, Romania Section Lead, Region 8, March-October 2021;
- Teaching Grant, UVT teaching & learning brand, CNFIS-FDI-2020-0274, Manager Asoc. Prof. PhD. Marian Ilie, December 2020;
- Ambassador of IEEEXtreme 14.0 Competition, Romania Section Lead, Region 8, March-October 2020;
- Research Grant, SC. Continental Automotive Romania SRL for the innovative proposal of the doctoral thesis and the research activity, October 2017-October 2019;
- Research Award of West University of Timisoara, Romanian Ministry of Education Funds, Project Manager Asoc. Prof. PhD. Mădălin Bunoiu, October 2018.

Indexing services:

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DECLARAŢIE PE PROPRIA RĂSPUNDERE

Subsemnatul Ștefănigă Sebastian-Aurelian, cetăţean [redacted] angajat al Universității de Vest din Timișoara, pe funcția de Asistent Universitar, în cadrul Facultății de Matematică și Informatică, Departamentul de Informatică, cunoscând prevederile art. 326 din Codul penal cu privire la falsul în declaraţii, după luarea la cunoştinţă a conţinutului Ordonanţei de urgenţă a Guvernului nr. 24/2008 privind accesul la propriul dosar şi deconspirarea Securităţii, declar prin prezenta, pe propria răspundere, că nu am fost lucrător al Securităţii sau colaborator al acesteia, în sensul art. 2 lit. a) și lit. b) din ordonanţa de urgenţă.

Data,

03.11.2021

Semnătura,

Ștefănigă Sebastian-Aurelian

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