

PERSONAL INFORMATION

Silviu - Marian NASTAC



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 🌐 <https://www.brainmap.ro/profile/SILVIU-MARIAN-NASTAC>  
[http://www.fib.ugal.ro/images/FIB\\_2016/CV/CV\\_Nastac\\_S.pdf](http://www.fib.ugal.ro/images/FIB_2016/CV/CV_Nastac_S.pdf)

Sex male | Date of birth 07/05/1971 | Nationality Romanian

WORK EXPERIENCE

March 2001 - present

Associate Professor, PhD MSc Eng Hab

"Dunarea de Jos" University of Galati, Romania - Engineering and Agronomy Faculty in Braila  
 - Member of *Engineering Sciences and Management Department*  
 - Head of the *Research Centre for Mechanics of Machines and Technological Equipments*

- 🌐 [www.ugal.ro](http://www.ugal.ro), [www.fib.ugal.ro](http://www.fib.ugal.ro)
- Teaching and scientific research activities
  - Enrolled with following courses: *Nonlinear and random vibrations, Numerical methods for engineers, Experimental technique, Analysis of structures behaviour, Computational dynamics of machines and equipments, Computational dynamics within hydraulic driving systems*

October 2017 - present

Associate Professor, PhD MSc Eng Hab

"Transilvania" University of Brasov, Faculty of Mechanical Engineering, Brasov, Romania  
 - Associate professor within *Mechanical Engineering Department*

- 🌐 [www.unitbv.ro](http://www.unitbv.ro)
- Teaching and scientific research activities
  - Enrolled with following course: *Finite Elements Method*

June 1998 - present

Research Scientist

Research Institute for Construction Equipments and Technologies – ICECON SA, Bucuresti, Romania

- 🌐 [www.icecon.ro](http://www.icecon.ro)
- Scientific research activities and research projects management

EDUCATION AND TRAINING

2017

Habilitation

University of Pitesti, Pitesti, Romania

- Habilitation for doctoral studies in the area of Mechanical Engineering, assigned on the base of O.M. no. 4150 / 21.06.2017

August 2013

Certificate of completion – LabVIEW Core1

National Instruments, USA

- Basic application development using LabVIEW software

September 2010

EAA Summer School Completion Certificate

European Acoustics Association - EAA , Slovenian Acoustical Society - SDA

- Soundscape, Building acoustics and Numerical acoustics

March 2007

Doctor in the field of Mechanical Engineering with Cum Laude Honour

"Dunarea de Jos" University of Galati, Romania

- Thesis title: *Dynamic Analysis of the Vibration Isolation Systems Intended for Construction Embedded Equipments*

#### 2006 Senior Manager for Scientific Research

“Politehnica” University of Bucharest, Romania

Management Agency for Scientific Research, Innovation and Technological Transfer - AMCSIT

- Certification for scientific research projects management

#### 2002 - 2004 Master of Science in Mechanical Engineering

“Dunarea de Jos” University of Galati, Romania

- Specialization: Deformable Solids Mechanics with Engineering Applications
- Thesis title: *On Dynamic Behaviour of Elastic Systems for Vibration and Seismic Passive Isolation*

#### 2000 - 2002 Postgraduate Specialization in Informatics and Computer Technology

“Dunarea de Jos” University of Galati, Romania

- ICT competences

#### 1996-1997 Master of Science in Computational Engineering

“Dunarea de Jos” University of Galati, Romania

- Specialization: Computational Analysis for Mechanical and Technological Processes
- Thesis title: *Studies on Dynamic Behaviour of the Offshore Systems*

### PERSONAL SKILLS

#### Organisational / managerial skills

- **Head** of Research Centre for Mechanics of Machines and Technological Equipments (**2012**-present)
- **Member** of Faculty Council (**2004**-present)
- **Member** of Department Council (**2004**-present)
- **Editor** for Romanian Journal of Acoustics and Vibration – RJA – referred journal of Romanian Society of Acoustics (**2004**-present)
- **Editor** for “Monitorul AROTEMA” Journal, a publication of Romanian Association for Construction Technologies, Equipments, Mechanization and Agreement (**2008**-present)
- **Associate Editor** for Scientific Journals International - Journal of Engineering, Computing & Architecture and Journal of Mechanical, Aerospace and Industrial Engineering (**2009**-present)
- **Member** of Organizing Committee and **Editor** of Proceedings for five Conferences organized by Romanian Society of Acoustics (**2005-2011**)
- **Member** of Reviewing Committee for Annals of DAAAM & Proceedings of the International DAAAM Symposium, ISI-Proceedings published by DAAAM International, Vienna, Austria (**2010**-present)
- **Member** of International Scientific Committee for The 41st International Conference on Mechanics of Solids, Acoustics and Vibrations “Prof. P.P. Teodorescu” - ICMSAV XLI, Technical Sciences Academy of Romania (ASTR) and Technical University of Cluj-Napoca, **2017**
- **Member** of International Scientific Committee for The 42nd International Conference on Mechanics of Solids, Acoustics and Vibrations “Prof. P.P. Teodorescu” ICMSAV **2018**, The 7th International Conference on “Advanced Composite Materials Engineering” - COMAT **2018**, The 2nd International Conference “Experimental Mechanics in Engineering” – eMECH **2018**, organized by Technical Sciences Academy of Romania (ASTR), Romanian Society of Theoretical and Applied Mechanics, Romanian Society of Acoustics și Transilvania University of Brasov
- **Chairman and Organizer** of Mini-Symposium MS3 - New Trends in Passive Mitigation of Shocks and Vibration, at The 10th HSTAM International Congress on Mechanics, May 25th-27th, **2013**, Chania, Crete, Greece
- **Co-Chairman and Co-Organizer** of “Numerical Acoustics (FEM/BEM)”, The 1st EAA-EuroRegio 2010 Congress on Sound and Vibration, September 15-18 **2010**, Ljubljana, Slovenia
- **Co-Chairman and Co-Organizer** of Special Session 5 (Stream 5) “Innovative Processes and Products” at The 5<sup>th</sup> International Vilnius Conference EURO-Mini Conference „Knowledge-Based Technologies and OR Methodologies for Strategic Decisions of Sustainable Development” KORSD-2009, September 30-October 3, **2009**, Vilnius, Lithuania

- **Chairman / Co-chairman** for
  - "Heat and Mechanics II" and "Fluids and Mechanics III", The 5th IASME / WSEAS International Conference on Continuum Mechanics (CM'10), February 23-25 **2010**, University of Cambridge, UK.
  - "Fuzzy Systems. Optimization - Simulation", The 10th WSEAS International Conference on Automation & Information (ICAI'09), Prague, Czech Republic, March 23-25, **2009**.
  - Session 1 - "Robotics, Mechatronics, Biomechanics, Wear investigations of materials", Annual Symposium of the Institute of Solid Mechanics - SISOM 2011 And Symposium of Acoustics, Romanian Academy, Academy of Technical Sciences, Commission of Acoustics of Romanian Academy, May 26-27, **2011**, Bucharest, Romania
  - Session 2 - "System Dynamics and Continuum Mechanics", The Annual Symposium of the Institute of Solid Mechanics - SISOM and Session of the Commission of Acoustics, Romanian Academy, Academy of Technical Sciences, Commission of Acoustics of Romanian Academy, **2012, 2013, 2014**
  - Section A at The 5th International Conference Computational Mechanics and Virtual Engineering "COMEC 2013", Universitatea „Transilvania” din Braşov, **2013, 2015**

Job-related skills

- **Member** of Scientific Research Commission within Faculty Council (**2008-present**)
- **Expert** for scientific projects evaluation for
  - *National Science Fund, Scientific Research Fund, Bulgarian Ministry of Education and Science (2008, 2009)*
  - *Romanian National Research-Development-Innovation Programm PN-II (2007, 2008)*
  - *European Commission Research & Innovation (EACEA, H2020), Id: EX2006C098211*

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills

- good command of Matlab – Simulink – SimScape software suite, Maple, MSC-Adams, Abaqus, NI-LabVIEW development software, Autodesk Inventor, HBM-Catman
- good command of C and Pascal programming languages
- basic command of COMSOL simulation software
- basic command of Html, Python and Arduino programming languages

ADDITIONAL INFORMATION

Publications  
Presentations  
Conferences  
Seminars

- **Publons/** Web of Science ResearcherID: N-3858-2019  
(<https://publons.com/researcher/2908336/silviu-nastac/>)
- **ResearcherID:** B-1562-2010  
(<http://www.researcherid.com/rid/B-1562-2010>)
- **Scopus** Author ID:36806695400  
(<http://www.scopus.com/inward/authorDetails.url?authorID=36806695400&partnerID=MN8TOARS>)
- **OrCID** ID: orcid.org/0000-0001-7957-8339  
(<http://orcid.org/0000-0001-7957-8339>)
- **Mendeley**  
(<https://www.mendeley.com/profiles/silviu-nastac/>)
- **Google Academic**  
(<https://scholar.google.ro/citations?user=vqwsougAAAAJ&hl=ro&oi=ao>)
- **ResearchGate**  
([https://www.researchgate.net/profile/Silviu\\_Nastac](https://www.researchgate.net/profile/Silviu_Nastac))
- **BrainMap** (UEF-ID code: U-1700-029B-7579)  
(<https://www.brainmap.ro/profile/SILVIU-MARIAN-NASTAC>)
- **ERRIS**  
(<https://erris.gov.ro/MECMET>)

Projects  
(Project or Partner Manager)

- *Research Grant:* Nonlinear behaviour analysis of the terrain – machine system within vibratory driving process of the construction elements into terrain (2003)
- *National Research-Development-Innovation Programm:* Studies regarding composites modular elements in order to increase the shock resistance of the protective structures for construction equipments cabins (2006-2008)

- *Grant for Exploratory Workshops*: Advanced rheological modelling with micro- and macro-structural conception of rubber based composites systems for shock and vibration base isolation (2008)
- *National RDI Programm*: Seismic risk reduction using elastical and dissipative base isolation systems (2004-2006)
- *National RDI Programm* : Device and system for seismic protection (2001-2003)
- *National RDI Programm* : Phonoisolator modular screens for ensembling protective elements with adaptive geometry in order to reduce the airborne noise due to fixed and mobile sources within constructions (2001-2003)
- *National RDI Programm* : Insulation group with mixed damping, enabling modular conception, intended for dynamic isolation of bridges and viaducts against seismic loads (2014-2017)

#### Honours and awards

- CIS/EU Research Grant Program, **2006**, awarded by Committee on International Research and Education (CIRE), Acoustical Society of America (ASA), for the project: *Dynamic analysis of the vibration isolation systems for the construction included equipments*
- PhD degree with Cum Laude Honour (**2007**)
- Certificate of Excellence for best technical articles published in "Monitorul AROTEMA" Journal (**2010**)
- Awarding Research Results - articles - uefiscdi.gov.ro (1 article in **2018**, 1 article in **2019**)

#### Memberships

- *Gesellschaft für Angewandte Mathematik und Mechanik (International Association of Applied Mathematics and Mechanics)* - **GAMM**, TU Darmstadt, Germany
- *International Institute of Acoustics and Vibration* - **IIV**, Auburn University, Auburn, USA
- *European Acoustics Association* – **EAA**
- *Romanian Association for Construction Technologies, Equipments, Mechanization and Agreement* – **AROTEMA** - Founding member and member in General Management Council
- *Romanian Society of Acoustics* – **SRA**
- *Romanian Society of Theoretical and Applied Mechanics* – **SRMTA**
- *Romanian Association for Tensiometry* – **ARTENS**