

PERSONAL INFORMATION

Herisanu Nicolae

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Sex M | Nationality Romanian

PROFESSIONAL EXPERIENCE

- 2015-present **Professor**
 University Politehnica Timisoara, Bd. Mihai Viteazu, nr.1, 300222 Timisoara, www.mec.upt.ro
 *Teaching and research activities
 Type or sector of activity : Education / research
- 2007-present **Director of Acoustics and Vibration Laboratory, accredited by RENAR**
 University Politehnica Timisoara, Bd. Mihai Viteazu, nr.1, 300222 Timisoara, www.mec.upt.ro
 ▪ Tests / measurements in the field of noise and vibrations
 Type or sector of activity : LAV Laboratory Coordination – accredited by RENAR with certificate LI-747
- 2001-present **Scientific researcher**
 Romanian Academy-Timisoara Branch, Center for Fundamental and Advanced Technical Research -CCTFA, Bd. Mihai Viteazu, nr.24, 300222 Timisoara
 ▪ Head of Vibration Laboratory - Research activities within the projects developed by the Electromechanics and Vibrations Section within CCTFA
 Type or sector of activity : Research
- 1990-2015 **Assistant / Lecturer / Associate professor**
 University Politehnica Timisoara, Bd. Mihai Viteazu, nr.1, 300222 Timisoara, www.mec.upt.ro
 ▪ Teaching and research activities (courses, research activities within national and international grants, contracts with industrial partners)
 Type or sector of activity : Education / research

EDUCATION AND TRAINING

- 2014 **Habilitation certificate in the field of "Mechanics, Mechatronics and Robotics Engineering" – Doctoral supervisor**
 University Politehnica Timisoara
- 1999 **Doctorate / Doctoral degree in technical sciences**
 University Politehnica Timisoara
 ▪ Doctoral studies in the branch of engineering sciences "Technical Mechanics and Mechanical Vibrations"
- 1985-1990 **Mechanical engineer**
 "Traian Vuia" Polytechnical Institute of Timisoara
 ▪ Specialization "Machine Building Technology" - promotion leader

PERSONAL COMPETENCES

Mother tongue Romanian

Other known foreign languages

	UNDERSTAND		SPEAKING		WRITING
	Listening	Reading	Participating in the conversation	Oral speech	
English	VG	VG	VG	VG	VG
French	VG	VG	G	G	VG

MEMBER IN SOCIETIES / PROFESSIONAL ASSOCIATIONS

- Romanian Academy of Technical Sciences (ASTR)
- European Acoustical Association (EAA)
- Romanian Society of Acoustics (SRA)
- Romanian Standardization Association-ASRO, Technical Committee CT-274 "Human protection against noise and vibrations"
- General Association of Engineers of Romania - AGIR
- Romanian Society of Theoretical and Applied Mechanics (SRMTA)

RESEARCH AREAS

- Nonlinear mechanics
- Nonlinear oscillations

EDITORIAL ACTIVITIES

- Member of the Editorial Board of journals: Romanian Journal of Acoustics and Vibration; Symmetry; Mathematics; INMATEH; Facta Universitatis, Series: Working and Living Environmental Protection (Serbia).
- Chairman of the AVMS conference and Editor of the publication „Proceedings of the Acoustics and Vibration of Mechanical Structures-AVMS” 2007, 2009, 2011, 2013 (indexed Web of Science) , 2015, 2017 (indexed Web of Science), 2019, 2021, 2023, 2025 – the last 5 editions published by the journal „Springer Proceedings in Physics”, indexed by SCOPUS – Conference jointly organized with University of Nis, Serbia
- Co-chairman of the Organising Committee and Editor of proceeding of papers for the conference „Noise and Vibration” – University of Nis (Serbia) 2012, 2014, 2016, 2018, 2020, 2024, 2026

EXPERIENCE IN COORDINATING NATIONAL / INTERNATIONAL PROGRAMS/PROJECTS

- Training of trainers for implementing advances technology of laser vibrometry in Romanian industrial and educational environment, European Commission, Leonardo Programme, 2006-2007
- Developing the capacity of the Acoustics and Vibrations laboratory in order to implement European directives in the field, ANCS, 2006-2008
- Research and applications of the dynamics of linear and nonlinear systems subjected to vibrating and vibro-percussive actions, CNCSIS 2004-2005
- Applications of vibrational displacement dynamics to separation processes, CNCSIS, 2001-2002
- 110 contracts with third parties during the period 2008-2026 in the field of acoustics and vibrations

ADDITIONAL INFORMATION

- List of publications: <https://orcid.org/0000-0003-2968-5309>
- Three monographs published by SPRINGER publishing house :
 - 2011 – „*Nonlinear Dynamical Systems in Engineering. Some Approximate Approaches*” –
 - 2015 – „*The Optimal Homotopy Asymptotic Method. Engineering Applications*” –
 - 2021 – „*The Optimal Auxiliary Functions Method for nonlinear dynamical systems*” –
- 5 of the papers published in international journals have more than 100 citations each (the most cited paper - 327 WoS citations)
- Two papers received the status of “Highly Cited Papers” on Web of Science
- Expert evaluator for national/international bodies: CNCSIS, ANCS, UEFISCDI, Leonardo da Vinci, Ministry of Development-Republic of Serbia.
- RENAR lead assessor and technical evaluator for acoustic and vibration tests
- Member of CNATDCU 2016-2018; 2020-2026 (Commission no. 17- Mechanical, mechatronics and robotics engineering and generic and armament engineering)
- AGIR – Timiș “Technical Book 2012” Award for the monograph *Nonlinear Dynamical Systems in Engineering. Some Approximate Approaches*, Springer Verlag-2011

- Reviewer for 99 international journals, including : Acta Mechanica, Nonlinear Dynamics, Alexandria Engineering Journal, Applied Mathematics and Computation, Applied Mathematical Modelling, Chaos Solitons & Fractals, Mathematical Problems in Engineering, Computers & Mathematics with Applications, European Journal of Mechanics, Zeitschrift für Angewandte Mathematik und Mechanik, International Journal of Mechanical Sciences, International Journal of Non-linear Mechanics, Communications in Nonlinear Sciences and Numerical Simulation, Energies, Meccanica, Journal of Sound and Vibration, etc.
- The 2017 "Aurel Vlaicu" Award of the Romanian Academy for the monograph *The Optimal Homotopy Asymptotic Method. Engineering Applications*, Springer Verlag-2015

Joint publications with researchers from Serbia

- Herisanu Nicolae, Marinca Bogdan, Marinca Vasile, Cveticanin Livija, Forced Nonlinear Vibration of an Axially Functionally Graded Beam under Combined Effects of Electromagnetic Actuation, Mechanical Impact and Casimir Force, Mathematics, 2026
- Cveticanin Livija, Herisanu Nicolae, Ismail Gamal Mohamed, Zukovic Miodrag, Vibration of the Liénard Oscillator with Quadratic Damping and Constant Excitation, Mathematics, 2025, vol.13(6), art.no.937, DOI: 10.3390/math13060937
- Herisanu Nicolae, Marinca Bogdan, Cveticanin Livija, Marinca Vasile, Analysis of the Vibro-Impact Nonlinear Damped and Forced Oscillator in the Dynamics of the Electromagnetic Actuation, Mathematics, 2023, vol.11(9), art.no.2194, DOI: 10.3390/math11092194
- Cveticanin Livija, Herisanu Nicolae, Ninkov Ivona, Jovanovic Mladen, New Closed-Form Solution for Quadratic Damped and Forced Nonlinear Oscillator with Position-Dependent Mass: Application in Grafted Skin Modeling, Mathematics, 2022, vol.10(15), art.no.2706, DOI: 10.3390/math10152706
- Cveticanin Dragan, Herisanu Nicolae, Biro Istvan, Zukovic Miodrag, Cveticanin Livija, Vibration of the biomass boiler tube excited with impact of the cleaning device, Mathematics, 2020, vol.8(9), art.no.1519, DOI: 10.3390/math8091519
- Mihajlov Darko, Prašević Momir, Herisanu Nicolae, Selection of measurement strategy for the assessment of long-term environmental noise indicators using multi-criteria optimization, Springer Proceedings in Physics 2018, vol.198, 77 - 82, DOI: 10.1007/978-3-319-69823-6_9
- Branko Radičević, Milan Kolarević, Nicolae Herisanu, Mišo Bjelić, Tanja Miodragović, Sound absorption of recycled plastic material, Proceedings of the 26th International Conference Noise and Vibration, 6-7 December, 2018, Nis, Serbia
- Milan Kolarević, Branko Radičević, Nicolae Herisanu, Miloje Rajović, Vladan Grković, Acoustic Properties of Recycled Rubber at Normal Incidence, IX International Conference "Heavy Machinery-HM 2017", Zlatibor, 28 June – 1 July 2017, F.23 – F.28
- Nicolae Herisanu, Darko Mihajlov, Vasile Bacria, Reducing the noise from an air conditioning installation: A case study, Proceedings of the 25th International Conference Noise and Vibration, 27-29 October, 2016, Tara, Serbia
- Cveticanin Livija, Oyedeji Kale, Marinca Vasile, Herisanu Nicolae, Advances in nonlinear vibration, Journal of Applied Mathematics, 2013, art.no.506419, DOI: 10.1155/2013/506419

Timisoara, 24.04.2026

Prof.dr.ing. Nicolae Herisanu

