




PERSONAL INFORMATION

Herisanu Nicolae



 Timisoara, Romania  
 0256-403629  
 [nicolae.herisanu@upt.ro](mailto:nicolae.herisanu@upt.ro)

Sex M | Date of Birth 22.11.1965 | Nationality Romanian

PROFESIONAL EXPERIENCE

2000-present

Associate Professor

„Politehnica” University of Timisoara, Faculty of Mechanical Engineering, Bd. Mihai Viteazu, 1, 300222 Timisoara, [www.mec.upt.ro](http://www.mec.upt.ro)

- Teaching and research activities (cursuri, seminarii, laboratoare, activitati de cercetare in cadrul unor granturi nationale si internationale, contracte cu parteneri industriali)

Type of activity: Educatie / cercetare

2007-present

Head of Acoustics and Vibration Laboratory

„Politehnica” University of Timisoara, Faculty of Mechanical Engineering, Bd. Mihai Viteazu, 1, 300222 Timisoara, [www.mec.upt.ro](http://www.mec.upt.ro)

- Testing in the field of acoustics and vibration

Type of activity: Management of the laboratory – accredited by RENAR (Romanian certification association) with certificate no. LI-747

1990-2000

Asistant / Lecturer

„Politehnica” University of Timisoara, Faculty of Mechanical Engineering, Bd. Mihai Viteazu, 1, 300222 Timisoara, [www.mec.upt.ro](http://www.mec.upt.ro)

- Teaching and research activities

Type of activity: Education / Research

EDUCATION

1999

PhD

„Politehnica “ University of Timisoara  
 “Contribution to the study of machine tools vibration”

1985-1990

Diploma in Mechanical Engineering

Polytechnical Institute of Timisoara  
 ▪ Specialization „Machine building technology”

PERSONAL COMPETENCES

Mother language

Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	VG	VG	G	G	VG
French	VG	VG	G	G	VG

## MEMBER IN PROFESSIONAL SOCIETIES/ASSOCIATIONS

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- Member of European Acoustical Association (EAA)
- Member of Romanian Acoustical Society (RAS)
- Member AGIR
- Member of Romanian Society for Theoretical and Applied Mechanics (RSTAM)

## EDITORIAL ACTIVITIES

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- Member in "Editorial Board" of the journal: "The Scientific World Journal", Impact Factor ISI – 1.219 (JCR-2013)
- Member in "Scientific Board" of the journal: "Romanian Journal of Acoustics and Vibration", Indexed by SCOPUS
- Editor of the publication „Proceedings of the Symposium Acoustics and Vibration of Mechanical Structures” 2007, 2009, 2011, 2013 (the latest indexed by ISI-Web of Science)
- Reviewer for international journals: Journal of Vibration and Control, Nonlinear Dynamics, Mathematical and Computer Modelling, Computers and Mathematics with Applications, Journal of Zhejiang University-SCIENCE A-Applied Physics & Engineering, Mathematical Methods in the Applied Sciences, Applied Mathematical Modelling, Mathematical Problems in Engineering, Analysis and Mathematical Physics, International Journal for Computational Methods in Engineering Science & Mechanics, Zeitschrift für Angewandte Mathematik und Mechanik, International Journal of Nonlinear Sciences and Numerical Simulation etc.

## EXPERIENCE IN PROJECT MANAGEMENT

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### International:

- Training of trainers for implementing advances technology of laser vibrometry in Romanian industrial and educational environment, European Commission, Leonardo Programme, 2006-2007 (15.000 EUR)

### National:

- Development of the capacity of Acoustics and Vibration Laboratory in order to implement European directives in the field, ANCS, 2006-2008 (799.500 lei)
- Researches on linear and nonlinear dynamical systems subjected to vibration and vibro-impact actions, CNCSIS 2004-2005 (31.000 lei)
- Applications of vibrational displacement dynamics in separation processes, CNCSIS, 2001-2002 (8.500 lei)
- 35 contracts with industrial partners during 2008-2014 in the field of acoustics and vibration

## SUPPLEMENTARY INFORMATION

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- **24 articles** published in ISI-Journal with impact factor
- Hirsch index: **H=11** according to Web of Science (ISI), **H=14** according to Google Scholar
- Number of citations ISI-Web of Science – **more than 500 de citations**
- Number of citations on Google Scholar – **more than 900 de citations**
- Expert evaluator for national/international organisations: CNCSIS, ANCS, UEFISCDI, Leonardo da Vinci, Ministry of Development-Republic of Serbia, etc.
- Technical evaluator for RENAR (Romanian accreditation association) for mechanical, acoustical and vibration testing
- Prize of AGIR –Timiș Branch „Technical Book 2012” for the monograph *Nonlinear Dynamical Systems in Engineering. Some Approximate Approaches*, Springer Verlag-2011

## PUBLICATIONS (Selection)

- V.Marinca, **N.Herisanu** - *Nonlinear Dynamical Systems in Engineering. Some Approximate Approaches*, Springer Verlag, Berlin, Heidelberg, 2011, ISBN 978-3-642-22734-9, a monograph which is present in more than 250 university libraries according to the international catalogue WorldCat– **19 citations** ISI-Web of Science and **26 citations** Google Scholar
- **N.Herisanu**, V.Marinca, Gh. Madescu - An analytical approach to non-linear dynamical model of a permanent magnet synchronous generator, *Wind Energy*, JUL 2014 | DOI: 10.1002/we.1785
- **N.Herisanu**, V.Marinca, Optimal Homotopy Perturbation Method for a Non-Conservative Dynamical System of a Rotating Electrical Machine, *Zeitschrift fur Naturforsch* 67a (2012) 509-516 – **5 citations** ISI-Web of Science and **6 citations** Google Scholar
- **N.Herisanu**, V.Marinca, *An Optimal Approach to Study the Nonlinear Behaviour of a Rotating Electrical Machine* Journal of Applied Mathematics, Volume 2012, Article ID 465023, 10 pages, doi:10.1155/2012/465023
- **N.Herisanu**, V.Marinca, Accurate analytical solutions to oscillators with discontinuities and fractional-power restoring force by means of the optimal homotopy asymptotic method, *Computers and Mathematics with Applications*, Elsevier UK, ISSN 0898-1221, vol.60, 2010, p.1607-1615– **18 citations** ISI-Web of Science and **31 citations** in Google Scholar
- **N.Herisanu**, V.Marinca, Explicit analytical approximation to large-amplitude non-linear oscillations of a uniform cantilever beam carrying an intermediate lumped mass and rotary inertia, *MECCANICA - Int. Journal of the Italian Association of Theoretical and Applied Mechanics*, Springer Netherlands, ISSN 0025-6455, vol.45, 2010, p.847-855– **19 citations** ISI-Web of Science and **34 citations** in Google Scholar
- V.Marinca, **N.Herisanu**, Determination of periodic solutions for the motion of a particle on a rotating parabola by means of the optimal homotopy asymptotic method, *Journal of Sound and Vibration*, Elsevier UK, ISSN: 0022-460X, vol.329, 2010, p.1450–1459– **26 citations** ISI-Web of Science and **46 citations** in Google Scholar
- **N.Herisanu**, V.Marinca, *An iteration procedure with application to Van der Pol oscillator*, *International Journal of Nonlinear Science and Numerical Simulation*, ISSN 1565-1339, vol.10, no.3, 2009, p.353-361– **6 citations** ISI-Web of Science and **9 citations** Google Scholar
- **N.Herisanu**, V.Marinca, T. Dordea, Gh. Madescu - A new analytical approach to nonlinear vibration of an electrical machine, *Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science (Factor de impact ISI: 1.115)* Vol.9(3), pp.229-236, 2008 – **37 citations** ISI-Web of Science and **73 citations** in Google Scholar
- V.Marinca, **N.Herisanu**, Application of Optimal Homotopy Asymptotic Method for solving nonlinear equations arising in heat transfer, *Int. Commun. Heat and Mass Transf.*, Vol.35(6), pp.710-715, 2008– **82 citations** ISI-Web of Science and **154 citations** in Google Scholar

Timisoara, 15.09.2014