

CURRICULUM VITAE

Ivana Kovacic

Associate Professor

Department of Mechanics
Faculty of Technical Sciences (FTN)
University of Novi Sad (UNS)
21125 Novi Sad
Serbia



Telephone number (office): +381 21 485 2241

Fax number: +381 21 450 207

E-mail: ivanakov@uns.ac.rs

Web-page: www.ivanakovacic.rs

EDUCATIONAL HISTORY

<u>Degree</u>	<u>Institution</u>	<u>Date</u>
BSc in Mechanical Engineering	FTN UNS	1995
MSc in Mechanics	FTN UNS	1999
PhD in Mechanics	FTN UNS	2002

ACADEMIC POSITIONS

Teaching Assistant	FTN UNS	1998-2004
Assistant Professor	FTN UNS	2004-2009
Associate Professor	FTN UNS	2009-present
Visiting Academic	ISVR UK	2009-present

SKILLS

- 'Expert for European Knowledge'-certificate for experts' training for professional knowledge and expertise in the field of EU project development
- Cambridge CAE certificate (Certificate in Advanced English)

FELLOWSHIPS/AWARDS

- Fellowships for Masters Degree Candidates of the Ministry of Science of the Republic of Serbia 1995-1998
- Postdoctoral Fellowship of the Ministry of Science of the Republic of Serbia 2005/06
- Yugoslav Society of Mechanics 'Rastko Stojanovic' Award at the 25th Yugoslav Congress on Theoretical and Applied Mechanics, June 2005
- Faculty of Technical Sciences Award for Outstanding Research, May 2009

EDITORIAL BOARDS MEMBERSHIP

- Assistant Editor of the Journal of Sound and Vibration from 1 October 2007.
- Book Review & Reviews Articles Editor, Member of the Editorial Board the Journal of Mechanical Engineering Science (Part C of the Proceeding of the Institution of Mechanical Engineers) from February 2009.

CONFERENCE ORGANIZING/SCIENTIFIC COMMITTEES MEMBERSHIP

- Member of the Scientific Committee of the 8th European Conference on Structural Dynamics EURODYN 2011, Leuven, Belgium, 4-6 July 2011
- Member of the Organizing Committee of the 10th International Conference Recent Advances in Structural Dynamics RASD2010, Southampton, UK, 12-14 July 2010
- Member of the Scientific Committee of the 10th Symposium Acoustics and Vibration of Mechanical Structures, Temisoara, Romania, 27-28 May 2009
- Member of the Scientific Committee of the 7th European Conference on Structural Dynamics EURODYN 2008, Southampton, UK, 7-9 July 2008
- Member of the Organizing Committee of the 25th Yugoslav Congress on Theoretical and Applied Mechanics, Novi Sad, Serbia and Montenegro, 1-3 June 2005

RECENT RESEARCH PROJECTS

- 2006-2010: 'Problems of Theoretical and Applied Mechanics of a Rigid Body' supported by the Ministry of Science, Republic Serbia
- 2007-2008: 'EXTRA 2' (SCM-Co26Bo6), TEMPUS Project
- 1 June 2008-1 June 2010: 'Using non-linearities to improve performance of vibrating systems', International Joint Project with M.J. Brennan (ISVR, UK), supported by the Royal Society, UK
- 2008- 2010: 'Variational approaches to some problems of the theory of non-linear vibrations', International Project, supported by the Provincial Secretariat of Science and Technological Development of Vojvodina, Republic Serbia, Ivana Kovacic - Project Leader
- 2010: 'Erasmus Mundus External Cooperation Window – EM ECW BASILEUS' with Professor Giuseppe Rega, University of Rome La Sapienza, Italy
- 2010: 'Graphical Engineering in the City of Novi Sad: Environmental Protection', supported by the City Department of Environmental Protection, Ivana Kovacic - Project leader

MANUSCRIPTS REVIEWED for:

International Journal of Non-Linear Mechanics, Non-Linear Dynamics, Journal of Sound and Vibration, Journal of Vibration and Control, Mathematical and Computer Modelling, Mathematics and Computers in Simulation, Theoretical and Applied Mechanics, Journal of Mechanical Engineering Science (Part C of the Proceeding of the Institution of Mechanical Engineers, Physics Letters A, Meccanica, ASME Journal of Applied Mechanics.

BIBLIOGRAPHY (Recent journal papers):

1. Rakaric Z., Kovacic I., *Approximations for motion of the oscillators with a non-negative real-power restoring force*, Journal of Sound and Vibration, 2011, Vol. 330, pp. 321-336.
2. Kovacic I., *A limit cycle and relaxation oscillations in a generalized van der Pol oscillator*, Communication in Non-linear Science and Numerical Simulations, 2011, Vol. 16, pp. 1640–1649.

3. Kovacic I., Rakaric Z., *Study of oscillators with a non-negative real-power restoring force and quadratic damping*, Nonlinear Dynamics, in press, doi. 10.1007/s11071-010-9861-9.
4. Kovacic, I., Rakaric, Z., Cveticanin, L., *A non-simultaneous variational approach for a certain class of non-linear oscillators*, Applied Mathematics and Computation, in press, doi:10.1016/j.amc.2010.09.058.
5. Cveticanin L., Kovacic I., Rakaric Z., *Asymptotic methods for vibrations of the pure fractional-order non-linear oscillators*, Computers and Mathematics with Applications, 2010, Vol. 60, pp. 2616-2628.
6. Gatti G., Kovacic I., Brennan M.J., *On the response of a harmonically excited two degree-of-freedom system consisting of linear and non-linear quasi-zero stiffness oscillators*, Journal of Sound and Vibration, 2010, Vol. 329, Issue 10, pp. 1823-1835.
7. Gatti G., Brennan M.J., Kovacic I., *On the interaction of the responses at the resonance frequencies of a nonlinear two degree-of-freedom system*, Physica D: Nonlinear Phenomena, 2010, Vol. 239, pp. 591-599.
8. Kovacic, I., *Invariants and approximate solutions for certain non-linear oscillators by means of the field method*, Applied Mathematics and Computation, 2010, Vol. 215, pp. 3482-3487.
9. Kovacic I., Rakaric Z., *Oscillators with a fractional-order restoring force: higher-order approximations for motion via a modified Ritz method*, Communication in Non-linear Science and Numerical Simulations, 2010, Vol. 15, pp. 2651-2658.
10. Kovacic I., *On the motion of non-linear oscillators with a fractional order restoring force and time variable parameters*, Physics Letters A, 2009, Vol. 373, pp. 1839-1843.