# Journal of Vibration Testing and System Dynamics

### **Editors**

# Pawel Olejnik

Department of Automation, Biomechanics and Mechatronics Lodz University of Technology 1/15 Stefanowski Str., BLDG A22 90-924 Lodz, Poland Email: pawel.olejnik@p.lodz.pl

### Xian-Guo Tuo

School of Automation & Information Engineering Sichuan University of Science and Engineering Zigong, Sichuan, 643000, China Email: tuoxianguo@suse.edu.cn

# Associate Editors

### Farbod Alijani

Department of Precision and Microsystems Engineering Delft University of Technology The Netherlands Email: F.Alijani@tudelft.nl

### Biagio Carboni

Department of Structural and Geotechnical Engineering Sapienza University of Rome, Italy Email: biagio.carboni@uniroma1.it

### Vladimir N. Grebenev

Institute of Computational Technologies Siberian Division of Russian Academy of Sciences (SDRAS) 630090 Akademgorodok, Novosibirsk, Russia

### Jianzhe Huang

School of Aeronautics and Astronautics Shanghai Jiao Tong University Shanghai, China 200240 Email: hjianzhe@sjtu.edu.cn

Email: vngrebenev@gmail.com

### Krzysztof Kecik

Department of Applied Mechanics Lublin University of Technology Nadbystrzycka, Lublin, Poland Email: k.kecik@pollub.pl

C. Steve Suh

Department of Mechanical Engineering Texas A&M University College Station, TX 77843-3123, USA Email: ssuh@tamu.edu

### Mohamed Belhaq

Laboratory of Mechanics University Hassan II-Casablanca Casablanca, Morocco Email: mbelhaq@yahoo.fr

### Francesco Clementi

Department of Civil and Buildings Engineering and Architecture Polytechnic University of Marche Ancona, Italy Email: francesco.clementi@univpm.it

McCoy School of Engineering Midwestern University 3410 Taft Boulevard Wichita Falls, TX 76310, USA Email: yu.guo@mwsu.edu

### Nizar Jaber

Department of Mechanical Engineering College of Engineering Sciences and **Applied Engineering** King Fahd University of Petroleum and Minerals, Saudi Arabia Email: nizar.jaber@kfupm.edu.sa

### Zhong Luo

School of Mechanical Engineering & Automation Northeastern University, Liaoning, China Email: zhluo@mail.neu.edu.cn

# Valentina E. Balas Automatics and Applied Software

Department Aurel Vlaicu University of Arad Arad, Romania Email: balas@drbalas.ro

### Frank Z. Feng

Department of Mechanical and Aerospace Engineering University of Missouri Columbia, MO 65211, USA Email: FengF@missouri.edu

### Hamid R. Hamidzadeh

Department of Mechanical and Manufacturing Engineering Tennessee State University Nashville, TN 37209-1561, USA Email: hhamidzadeh@tnstate.edu

### Hossein Jafari

Department of Mathematical Science University of South Africa Corner of Christiaan de Wet Road & Pioneer Avenue, Florida, 1709 South Africa Email: jafarh@unisa.ac.za

### Diego Orlando

Department of Mechanics and Energy University of State of Rio de Janeiro, Resende, Brazil Email: dgorlando@gmail.com

# Journal of Vibration Testing and System Dynamics

Volume 9, Issue 1, March 2025

Editors
Pawel Olejnik
C. Steve Suh
Xian-Guo Tuo



### **Publication Information**

Journal of Vibration Testing and System Dynamics (ISSN 2475-4811 (print), eISSN 2475-482X (online)) is published quarterly (March, June, September, and December) by L & H Scientific Publishing, LLC, PO Box 219, Glen Carbon, IL62034, USA. Subscription prices are available upon request from the publisher or from this journal website. Subscriptions are accepted on a prepaid basis only and entered on a calendar year basis. Issues are sent by standard mail (Surface in North America, air delivery outside North America). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

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Journal of Vibration Testing and System Dynamics is an interdisciplinary journal as a platform for facilitating the synergy of dynamics, experimentation, design, and education. The journal publishes high-quality, original articles that explore the theory, modelling, and application of dynamical systems and data-driven dynamics for high-impact engineering solutions. Manuscripts exploring data science, machine learning, and artificial intelligence to the design and control of complex dynamical systems including cell and neuro networks are solicited. Articles on data mining, deep learning and big data applicable to physical sciences and large-scale dynamic systems are equally encouraged. Progress made in the following topics, but not limited to, are of interest to the journal:

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- Data and signal processing
- System identification
- Dynamical sensing and measurement
- Discrete dynamical systems

### **Dynamics of Continuum**

- Flow induced vibrations
- Combustion dynamics
- Sensing, measurement and devices
- Thermoacoustic vibrations

### **Complex Networks and Systems**

- Network dynamics and control
- Synchronization and collective behavior
- Networks of networks
- · Consensus tracking

### **Design for Dynamics**

- Dynamical failures and fatigues
- Structural dynamics and reliability
- Vibration testing and validation
- Multi-body dynamics
- Wave propagation and acoustics

### **Biological and Biomedical Physics**

- Biological dynamics and biophysics
- Dynamics of bio-systems
- Neuro and brain dynamics
- Biomechanical systems and devices

### **Chemical Dynamics**

- Dynamic chemical networks
- Mechanism of chemical reaction
- Molecular dynamics
- Process modelling and design

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### Laura Ruzziconi

Dipartimento di Architettura Costruzioni e Strutture Università Politecnica delle Marche Ancona, Italy

Email: laura.ruzziconi@uniecampus.it

### **Dimitry Volchenkov**

Department of Mathematics and Statistics Texas Tech University 1108 Memorial Circle Lubbock, TX 79409, USA Email: dr.volchenk@gmail.com

### Yeyin Xu

**Editorial Board** 

Faculty of Engineering

Email: fengpra@ku.ac.th

Kasetsart University

University of Regina

Canada, S4S 0A2

Regina, Saskatchewan

School of Aerospace Engineering Xi'an Jiaotong University Xi'an, 710048, China Email: xuyeyin@xjtu.edu.cn

Nyesunthi Apiwattanalunggarn

JatuJak Bangkok 10900, Thailand

Industrial Systems Engineering

Email: Liming.Dai@uregina.ca

Department of Mechanical Engineering

University of Southampton Southampton, United Kingdom Email: d.yurchenko@soton.ac.uk

### Alexander P. Seyranian

Institute of Mechanics Moscow State Lomonosov University, Michurinsky pr. 1, 119192 Moscow, Russia Email: aseyranian@mail.ru

### Guo-Cheng Wu

Data Recovery Key Laboratory of Sichuan Province 641100, China

### Daniil Yurchenko

Neijiang Normal University, Neijiang Email: wuguocheng@gmail.com

# Jose Manoel Balthazar

School of Engineering Universidade Estadual Paulista Bauru Campus, Bauru, Brazil Email: jmbaltha@gmail.com

### Mark Edelman

Yeshiva University 245 Lexington Avenue New York, NY 10016, USA

### Xilin Fu

Liming Dai

School of Mathematical Science Shandong Normal University Jinan 250014, China Email: xilinfu@gmail.com

### Marine Mikilyan

Institute of Mechanics National Academy of Sciences of Armenia 24, Marshall Baghramian Ave. 0019 Yerevan, Republic of Armenia Email: mikilyan@sci.am

### Weinian Zhang

School of Mathematics Sichuan University Chengdu, Sichuan, P.R. China Email: wnzhang@scu.edu.cn

Email: edelman@cims.nyu.edu

# Lakshmi Narayan Guin

Department of Mathematics Siksha Bhavana, Visva-Bharati, Santiniketan-731235 West Bengal, India Email: guin ln@yahoo.com

### Hiroaki Watanabe

Department of Mechanical Engineering Kyushu University Nishi-ku, Fukuoka 819-0395, Japan Email: whiroaki@mech.kyushu-u.ac.jp

### Xu Sun

College of Mechanical and Transportation Engineering China University of Petroleum-Beijing Beijing, 102249, China Email: xsun@cup.edu.cn

### Xingzhong Xiong

School of Automation & Information Engineering Sichuan University of Science and Engineering Zigong, Sichuan, 643000, China Email: xzxiong@suse.edu.cn

### Giuseppe Catania

Department of Mechanics University of Bologna viale Risorgimento, 2, I-40136 Bologna, Email: giuseppe.catania@unibo.it

### Peihua Feng

School of Aerospace Engineering Xi'an Jiaotong University Xi'an, 710048, China Email: fphd2017@xjtu.edu.cn

### Yanfei Jin

Department of Mechanics School of Aerospace Engineering Beijing Institute of Technology Beijing, China, 100086 Email: jinyf@bit.edu.cn

### Jianming Yang

Faculty of Engineering and Applied Science Memorial University of Newfoundland St. John's, Newfoundland, Canada Email: jyang@mun.ca