

Journal of Applied Nonlinear Dynamics

Editors

Albert C.J. Luo

Department of Mechanical and Industrial Engineering
Southern Illinois University Edwardsville
Edwardsville, IL 62026-1805, USA
Email: aluo@siue.edu

Miguel A. F. Sanjuan

Department of Physics
Universidad Rey Juan Carlos
28933 Mostoles, Madrid, Spain
Email: miguel.sanjuan@urjc.es

Associate Editors

Viktor Avrutin

Institute for Systems Theory and
Automatic Control,
University of Stuttgart
Pfaffenwaldring 9, 70569 Stuttgart,
Germany
avrutin.viktor@gmail.com

Irina Bashkirtseva

Ural Federal University
Lenina, 51, 620000, Ekaterinburg,
Russia
Irina.Bashkirtseva@urfu.ru

Tassos Bountis

Department of Mathematics
University of Patras, Patras 26500
Greece
tassosbountis@gmail.com

Eric Campos Cantón

División de Matemáticas Aplicadas
Instituto Potosino de Investigación
Científica y Tecnológica
San Luis Potosí, México
eric.campos@ipicyt.edu.mx

Lock Yue Chew

Division of Physics & Applied Physics
School of Physical & Mathematical
Sciences
Nanyang Technological University
21 Nanyang Link, SPMS-PAP-04-04
Singapore 637371
Email: lockyue@ntu.edu.sg

Jorge Duarte

ISEL-Engineering Superior Institute of
Lisbon,
Mathematics Department,
Rua Conselheiro Emídio Navarro,
1949-014 Lisboa,
Portugal
Email: jorge.duarte@isel.pt

Igor Franović

Center of Excellence for the Study of
Complex Systems
Institute of Physics Belgrade
Pregrevica 118, 11080 Belgrade, Serbia
franovic@ipb.ac.rs

Guoxiang Huang

State Key Laboratory of Precision
Spectroscopy
East China Normal University
No. 5 Dongchuan Road, Shanghai
200241, China
Email: gxhuang@phy.ecnu.edu.cn

Sayad Jafari

Biomedical Engineering Faculty,
Amirkabir University of Technology,
424 Hafez Ave, 15875-4413, Tehran,
Iran
sajadjafari@aut.ac.ir

Edson Denis Leonel

Departamento de Física
UNESP - Univ Estadual Paulista
Av. 24A, 1515 - Rio Claro – SP
Brazil - 13.506-900
Email: edleonel@rc.unesp.br

Chunbiao Li

School of Artificial Intelligence, Nanjing
University of Information Science &
Technology, Nanjing 210044, China
goontry@126.com

René Lozi

Université Cote d'Azur, Nice, France
Email: Rene.LOZI@univ-cotedazur.fr

Jun Ma

Department of Physics
Lanzhou University of Technology
Lanzhou 730050 China
E-mail: hyperchaos@163.com,
hyperchaos@lut.edu.cn

Arturo C. Martí

Instituto de Física, Facultad de Ciencias
Iguá 4225, 11400 Montevideo, Uruguay
marti@fisica.edu.uy,
arturomarti@gmail.com

Minvydas Ragulskis

Center for Nonlinear Systems
Department of Mathematical Modelling
Kaunas University of Technology
Studentu 50-146,
Kaunas LT-51368, Lithuania
Email: minvydas.ragulskis@ktu.lt

Shanmuganathan Rajasekar

School of Physics
Bharathidasan University
Tiruchirappalli - 620 024
Tamilnadu, India
Email: srj.bdu@gmail.com; srj@bdu.ac.in

Gonzalo Marcelo Ramírez-Ávila

Instituto de Investigaciones Físicas
Universidad Mayor de San Andrés
Campus Universitario Cota-Cota
Calle 27, La Paz, Bolivia
Email: mravila@fiumsa.edu.bo

Thounaojam Umeshkanta Singh

Bennett University, Greater Noida,
India
Email:
thounaojam.singh@bennett.edu.in

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Editors

Albert Chao-Jun Luo

Miguel A. F. Sanjuan



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Aims and Scope

The Journal of Applied Nonlinear Dynamics is a journal aiming at increasing the basic and applied knowledge in the interdisciplinary field of nonlinear sciences, including nonlinear dynamics, chaos, and complex systems, and focusing on physics, applied mathematics, engineering and other applied disciplines. The aim of the journal is to stimulate research in nonlinear phenomena in science and engineering. Manuscripts in complex dynamical systems with nonlinearity and chaos are solicited, which includes physical mechanisms of complex systems and engineering applications of nonlinear dynamics. The journal provides a place to researchers for the rapid exchange of ideas and techniques in nonlinear dynamics.

No length limitations for contributions are set, but only concisely written manuscripts are published. Brief papers are published, either as technical notes or concise new results. Discussions of previous published papers are also welcome. The journal aims to be a forum of exchange of new research results for physicists, applied mathematicians, and engineers involved in Nonlinear Science and Numerical Simulation. Topics of interest includes but not limited to

- Deterministic chaos,
- Nonlinear dynamical systems and control,
- Fractional dynamics and applications,
- Synchronization phenomena,
- Fractal structures in nonlinear dynamics,
- Fluctuations and noise effects on dynamical systems
- Chaos in Hamiltonian systems,
- Nonlinearity and chaos in quantum mechanics,
- Chaos in Astrophysics and Celestial Dynamics,
- Integrable systems and solitons,
- Collective behaviors in many-body systems,
- Biological physics and networks,
- Nonlinear mechanical systems,
- Nonlinear phenomena and chaos in Physics
- Complex systems and complexity.

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Charalampos (Haris) Skokos

Department of Mathematics and Applied Mathematics,
University of Cape Town
Rondebosch, 7701, South Africa
Email: haris.skokos@uct.ac.za

Wirot Tikjha

Faculty of Science and Technology
Pibulsongkram Rajabhat University,
Phitsanulok, Thailand
Email: wirottik@psru.ac.th

Christos Volos

Department of Physics
Aristotle University of Thessaloniki
GR-54124 Thessaloniki, Greece
volos@physics.auth.gr

Shengda Zeng

Jagiellonian University, Faculty of Mathematics and Computer Science, ul. Lojasiewicza 6, 30-348 Krakow, Poland
shengdazeng@gmail.com

Editorial Board

Antonio M Lopes

UISPA-LAETA/INEGI
Faculty of Engineering
University of Porto
Rua Doutor Roberto Frias, s/n, 4200-465
Porto, Portugal
Email: aml@fe.up.pt

Yuefang Wang

Department of Engineering Mechanics
Dalian University of Technology
Dalian, Liaoning, 116024, China
Email: yfwang@dlut.edu.cn

Zhigang Zheng

Institute of Systems Science,
Huaqiao University,
No.668 Jimei Avenue,
Xiamen, Fujian 361021
China
Email: zgzheng@hqu.edu.cn

Michael Small

Department of Mathematics and Statistics
The University of Western Australia
35 Stirling Highway, 6009 Perth
Australia
Email: michael.small@uwa.edu.au

Isao Tokuda

Ritsumeikan University, Japan
Email: isao@fc.ritsumei.ac.jp

Ying Wu

School of Aerospace Engineering
Xi'an Jiaotong University, Xi'an, China
Email: wying36@xjtu.edu.cn

Fuhong Min

School of Electrical and Automation Engineering,
Nanjing Normal University
Nanjing 210023, China
Email: minfuhong@njnu.edu.cn

Jianhua Yang

School of Mechatronic Engineering,
China University of Mining and Technology,
Xuzhou, Jiangsu, 221116
China
Email: jianhuayang@cumt.edu.cn

Vasily E. Tarasov

Skobeltsyn Institute of Nuclear Physics
Moscow State University
119991 Moscow, Russia
Email: tarasov@theory.sinp.msu.ru

Ricardo Viana

Departamento de Física
Universidade Federal do Paraná
81531-990, Curitiba, Paraná, Brasil
viana@fisica.ufpr.br

Serhiy Yanchuk

School of Mathematical Sciences
University College Cork
Cork, Ireland
Email: syanchuk@ucc.ie

Lev Ryashko

Department of the Theoretical and Mathematical Physics
Ural Federal University
Lenina, 51, 620000, Ekaterinburg
Russia
Email: lev.ryashko@urfu.ru

Yufeng Zhang

College of Sciences
China University of Mining and Technology
Xuzhou, Jiangsu 221116
China
Email: mathzhang@126.com