

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

Hongjun Cao

Department of Mathematics
School of Science
Beijing Jiaotong University
Shang Yuan Cun 3, Haidian District
Beijing 100044
China
Email: hjcao@bjtu.edu.cn

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: jduarte@adm.isel.pt

Lyudmila Efremova

Institute of Information Technologies
Mathematics and Mechanics
University of Nizhni Novgorod
Gagarin ave., 23a
Nizhni Novgorod, 603950
Russia
Email: lefunn@gmail.com

Yurij Holovatch

Laboratory for Statistical Physics of
Complex Systems
Institute for Condensed Matter Physics
National Acad. Sci. of Ukraine, Lviv
Ukraine
Email: hol@icmp.lviv.ua

Nikolay V. Kuznetsov

Mathematics and Mechanics Faculty
Saint-Petersburg State University
Saint-Petersburg, 198504, Russia
Email: n.v.kuznetsov@spbu.ru

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

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

J. A. Tenreiro Machado

ISEP-Institute of Engineering of Porto
Dept. of Electrical Engineering
Rua Dr. Antonio Bernardino de
Almeida 431, 4200-072 Porto Portugal
Email: jtm@isep.ipp.pt

Vladimir I. Nekorkin

Institute of Applied Physics of RAS
46 Ulyanov Street, 603950
Nizhny Novgorod
Russia
Email: vnekorkin@appl.sci-nnov.ru

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

Nonlinear Dynamics and Complex
Systems Group
Instituto de Investigaciones Físicas
Universidad Mayor de San Andrés
Campus Universitario Cota-Cota
Calle 27, La Paz, Bolivia
Email: mravila@fiumsa.edu.bo,
gramirez@ulb.ac.be

Lev Ryashko

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

Vsevolod Sakbaev

Moscow Institute of Physics and
Technology
Institutskiy per. 9, Dolgoprudny
Moscow region, 141701
Russia
Email: sakbaev.vzh@mipt.ru

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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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Michael Small

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

Juan J. Trujillo

Department de Análisis Matemático
Universidad de La Laguna
C/Astr. Fco. Sánchez s/n
38271 La Laguna, Tenerife
Spain
Email: jtrujill@ullmat.es

Jianhua Yang

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

Charalampos (Haris) Skokos

Department of Mathematics and Applied
Mathematics, Faculty of Science
Mathematics Building, Upper Campus
University of Cape Town
Rondebosch, 7701, South Africa
Email: haris.skokos@uct.ac.za,
haris.skokos@gmail.com

Juan Alejandro Valdivia

Departamento de Física
Facultad de Ciencias
Universidad de Chile
Las Palmeras 3425, Nunoa
Santiago, Chile
Email: alejo@macul.ciencias.uchile.cl

Yufeng Zhang

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

Vasily E. Tarasov

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

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