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

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

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

Vladimir I. Nekorkin
Institute of Applied Physics of RAS
46 Ul'yanov Street, 603950
Nizhny Novgorod
Russia
Email: vnekorkin@appl.sci-nnov.ru

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@fiuumsa.edu.bo, gramirez@ulb.ac.be

Associate Editors

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

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

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

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

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

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

Jorge Duarte
ISEL-Engineering Superior Institute of Lisbon
Mathematics Department
Rua Conselheiro Emmidio Navarro
1949-014 Lisboa
Portugal
Email: jduarte@adm.isel.pt

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

Peer Review

Journal of Applied Nonlinear Dynamics adopts the traditional blind-review policy in which the reviewers’ names are concealed for submission author(s) for free submission. Each submitted manuscript is reviewed at least two referees in appropriate fields. In addition, the editorial board members’ recommendation or established experts’ recommendation publication are welcome.

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