Discontinuity, Nonlinearity, and Complexity

Honorary Editor
Lev Ostrovsky
University of Colorado, Boulder, and University of North Carolina, Chapel Hill, USA, Email: lev.ostrovsky@gmail.com

Editors

Dimitri Volchenkov
Mathematics & Statistics
Texas Tech University
1108 Memorial Circle, Lubbock, TX 79409, USA
Email: dr.volchenkov@gmail.com

Dumitru Baleanu
Cankaya University, Ankara, Turkey
Institute of Space Sciences, Magurele-Bucharest, Romania
Email: dumitru.baleanu@gmail.com

Associate Editors

Mokhtar Adda-Bedia
Laboratoire de Physique
Ecole Normale Supérieure de Lyon
46 Allée d’Italie, 69007 Lyon, France
Email: adda@lps.ens.fr

Marat Akhmet
Department of Mathematics
Middle East Technical University
06531 Ankara, Turkey
Fax: +90 312 210 2972
Email: marat@metu.edu.tr

Eugenio Aulisa
Mathematics & Statistics
Texas Tech University
1108 Memorial Circle
Lubbock, TX 79409, USA
Email: eugenioaulisa@ttu.edu

Marian Gidea
Department of Mathematical Sciences
Yeshiva University
New York, NY 10016, USA
Fax: +1 212 340 7788
Email: Marian.Gidea@yu.edu

Amin Jajarmi
Department of Electrical Engineering,
University of Bojnord, P.O. Box, 94531-1339, Bojnord, Iran
Email: a.jajarmi@gmail.com

Dmitry V. Kovalevsky
Climate Service Center Germany (GERICS), Hamburg & Nansen International Environmental and Remote Sensing Centre (NIERSC) & Saint Petersburg State University (SPbU), St. Petersburg, Russia
Email: dmitry.v.kovalevsky@gmail.com

Elbert E.N. Macau
Laboratory for Applied Mathematics and Computing,
National Institute for Space Research,
Av. dos Astronautas, 1758
C. Postal 515 12227-010 - Sao Jose dos Campos - SP, Brazil
Email: elbert.macau@inpe.br, elbert.macau@gmail.com

Marc Leonetti
IRPHE, Aix-Marseille Université
UMR CNRS 7342, Technopôle de Château-Gombert 13384 Marseille Cedex 13 France
Email: leonetti@irphe.univ-mrs.fr

J. A. Tenreiro Machado
Institute of Engineering, Polytechnic of Porto, Dept. of Electrical Engineering,
Rua Dr. Antonio Bernardino de Almeida, 431, 4249-015 Porto, Portugal
Fax: 351-22-8321159
Email: jtm@isep.ipp.pt

Carla M. A. Pinto
Instituto Superior de Engenharia do Porto, Department of Mathematics, Rua Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal
Email: cpinto@fc.up.pt

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Aims and Scope

The interdisciplinary journal publishes original and new results on recent developments, discoveries and progresses on Discontinuity, Nonlinearity and Complexity in physical and social sciences. The aim of the journal is to stimulate more research interest for exploration of discontinuity, complexity, nonlinearity and chaos in complex systems. The manuscripts in dynamical systems with nonlinearity and chaos are solicited, which includes mathematical theories and methods, physical principles and laws, and computational techniques. The journal provides a place to researchers for the rapid exchange of ideas and techniques in discontinuity, complexity, nonlinearity and chaos in physical and social sciences. Topics of interest include but not limited to

- Complex and hybrid dynamical systems
- Discontinuous dynamical systems (i.e., impulsive, time-delay, flow barriers)
- Nonlinear discrete systems and symbolic dynamics
- Fractional dynamical systems and control
- Stochastic dynamical systems and randomness
- Complexity, self-similarity and synchronization
- Complex nonlinear phenomena in physical systems
- Stability, bifurcation and chaos in complex systems
- Turbulence and other complex phenomena in hydrodynamics
- Nonlinear waves and solitons
- Dynamical networks
- Combinatorial aspects of dynamical systems
- Biological dynamics and biophysics
- Pattern formation, social science and complexization

No length limitations for contributions are set, but only concisely written manuscripts are published. Brief papers are published on the basis of Technical Notes. Discussions of previous published papers are welcome.

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Alexander N. Pisarchik
Center for Biomedical Technology
Technical University of Madrid
Campus Montegancedo
28223 Pozuelo de Alarcon, Madrid, Spain
E-mail: alexander.pisarchik@ctb.upm.es

Laurent Raymond
Centre de Physique Théorique
Aix-Marseille Université
Campus de Luminy, Case 907, 13288 Marseille Cedex 09, France
Email: laurent.raymond@univ-amu.fr

Miguel A. F. Sanjuan
Nonlinear Dynamics, Chaos and Complex Systems
Universidad Rey Juan Carlos
Tulipán s/n, 28933 Mostoles, Madrid, España-Spain
Email: miguel.sanjuan@urjc.es

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

Edgardo Ugalde
Instituto de Fisica
Universidad Autonoma de San Luis Potosi
Av. Manuel Nava 6, Zona Universitaria
San Luis Potosi SLP, CP 78290, Mexico
Email: gallo.ugalde@gmail.com

Alexei A. Vasiliev
Space Research Institute
Profsoyuznaya 84/32
Moscow 117997, Russia
Email: valex@iki.rssi.ru

Simon Villain-Guillot
Laboratoire Ondes et Matière d'Aquitaine
33405 TALENCE CEDEX, France
Email: simon.villain-guillot@u-bordeaux.fr

Guo-Cheng Wu
Data Recovery Key Laboratory of Sichuan Province
Neijiang Normal University, Neijiang 641100, China
Email: wuguocheng@gmail.com