

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

Xavier Leoncini

Centre de Physique Théorique, Aix-Marseille Université, CPT
Campus de Luminy, Case 907
13288 Marseille Cedex 9, France
Email: leoncini@cpt.univ-mrs.fr

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

Dimitri Volchenkov

Mathematics & Statistics
Texas Tech University
1108 Memorial Circle, Lubbock, TX 79409, USA
Email: dr.volchenkov@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: eugenio.aulisa@ttu.edu

Didier Bénisti

CEA, DAM,
DIF 91297 Arpajon Cedex France
Email: didier.benisti@cea.fr

Maurice Courbage

CNRS-UMR 7057 "Matière et Systèmes
Complexes", 75205 Paris Cedex 13 France
Email: maurice.courbage@univ-paris-
diderot.fr

Marie-Christine Firpo

Laboratoire de Physique des Plasmas
CNRS UMR 7648, Ecole Polytechnique
91128 Palaiseau cedex, France
Fax: (00 33) 1 69 33 59 06
Email: marie-
christine.firpo@lpp.polytechnique.fr

Marian Gidea

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

Dmitry V. Kovalevsky

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

Marc Leonetti

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

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

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

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

Vakhtang Putkaradze

Department of Mathematical and Statistical
Sciences
University of Alberta
Edmonton, AB T6G 2J1, Canada
Email: putkarad@ualberta.ca

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

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Editors
Xavier Leoncini
Edgardo Ugalde
Dimitry Volchenkov



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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.

Peer Review

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C. Steve Suh

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

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, 351 cours de la Libération
33405 TALENCE CEDEX , France
Email: simon.villain-guillot@u-bordeaux.fr

Michael A. Zaks

Institut für Physik
Humboldt Universität Berlin
Newtonstr. 15, 12489 Berlin
Email: zaks@physik.hu-berlin.de