

Discontinuity, Nonlinearity, and Complexity

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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

Eugenio Aulisa

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

Marie-Christine Firpo

Laboratoire de Physique des Plasmas
CNRS UMR 7648, Ecole Polytechnique
91128 Palaiseau cedex, France
Email: marie-christine.firpo@lpp.polytechnique.fr

Amin Jajarmi

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

Jamal-Odysseas Maaita

University of Thessaloniki
Department of Physics Komnion 24,
Panorama 55236 Thessaloniki, Greece
Email: jmaay@physics.auth.gr

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@gmail.com

Fuhong Min

School of Electrical & Electronic
Engineering,
Nanjing Normal University
China
Email: minfuhong@njnu.edu.cn

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

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

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

Andrey Shilnikov

Neuroscience Institute and Department of
Mathematics & Statistics,
Georgia State University, USA
Email: ashilnikov@gsu.edu

C. Steve Suh

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

Hansong Tang

Civil Engineering
The City College of New York
New York, USA
Email: htang@ccny.cuny.edu

Alexei A. Vasiliev

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

Guo-Cheng Wu

Key Laboratory of Intelligent Analysis and
Decision on Complex Systems,
Chongqing University of Posts and
Telecommunications,
Chongqing, 400065, PR China
Email: wuguocheng@gmail.com

Siyuan Xing

Department of Mechanical Engineering
California Polytechnic State University San
Luis, Obispo, CA, 93401, USA
Email: siyuanxing9132@gmail.com

Editorial Board

Mokhtar Adda-Bedia

Laboratoire de Physique Statistique
Ecole Normale Supérieure
24 rue Lhomond, 75231 Paris Cedex 05,
France
Email: adda@lps.ens.fr

Ravi P. Agarwal

Department of Mathematics
Texas A&M University – Kingsville,
Kingsville, TX 78363-8202, USA
Email: agarwal@tamuk.edu

Igor Belykh

Department of Mathematics & Statistics
Georgia State University
30 Pryor Street, Atlanta, GA 30303-3083
USA
Email: ibelykh@gsu.edu

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Editors
Dimitry Volchenkov
Dumitru Baleanu



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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

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Didier Bénisti

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

Michal Feckan

Department of Mathematical Analysis and
Numerical Mathematics, Comenius
University Mlynska dolina
842 48 Bratislava, Slovakia
Email: michal.feckan@fmph.uniba.sk

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

Vladimir I. Nekorkin

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

Vasily E. Tarasov

Skobeltsyn Institute of Nuclear Physics
Moscow State University
119992 Moscow, Russia
Fax: +7 495 939 03 97
Email: tarasov@theory.sinp.msu.ru

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

Alexandre N. Carvalho

Departamento de Matemática, Instituto de
Ciências Matemáticas e de Computação
Universidade de São Paulo - Campus de São
Carlos, Caixa Postal 668, 13560-970 São
Carlos SP, Brazil
Email: andcarva@icmc.usp.br

Stefano Galatolo

Dipartimento di Matematica Applicata
Via Buonattoti 1
56127 Pisa, Italy
Email: s.galatolo@ing.unipi.it

Yuri Maistrenko

Institute of Mathematics
National Academy of Sciences of Ukraine
Volodymyrska Str. 54, room 232
01030 Kiev, Ukraine
E-mail: y.maistrenko@biomed.kiev.ua

Raul Rechtman

Centro de Investigacion en Energia
Universidad Nacional Autonoma de Mexico
Priv. Xochicalco S/N, Temixco
Morelos 62580, Mexico
Email: rrs@cie.unam.mx

Marco Thiel

Institute for Mathematical Biology and
Complex Systems
University of Aberdeen
AB243UE Aberdeen, Scotland, UK
Fax: +44 1224 273105
Email: m.thiel@abdn.ac.uk

Todd Young

Department of Mathematics
Ohio University
Athens, OH 45701, USA
Email: young@math.ohiou.edu

Maurice Courbage

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

Tassilo Küpper

Mathematical Institute
University of Cologne, Weyertal 86-90
D-50931 Cologne, Germany
Email: kuepper@math.uni-koeln.de

Mikhail Malkin

Department of Mathematics and Mechanics
Nizhny Novgorod State University, Nizhny
Novgorod, Russia
Email: malkin@unn.ru

Nikolai Rulkov

BioCircuits Institute, University of
California, San Diego, 9500 Gilman Drive
#0328 La Jolla, CA 92093-0328, USA
Email: nrulkov@ucsd.edu

Vladimir V. Uchaikin

Ulyanovsk State University
L.Tolstoy Str. 42
Ulyanovsk 432700, Russia
Fax: +7 842 232 90 14
Email: vuchaikin@gmail.com