Discontinuity, Nonlinearity, and Complexity

Editors

Valentin Afraimovich
San Luis Potosi University, IICO-UASLP, Av.Karakorum 1470 Lomas 4a Seccion, San Luis Potosi, SLP 78210, Mexico
Fax: +52 444 825 0198
Email: valentin@cactus.iico.uaslp.mx

Lev Ostrovsky
Zel Technology/NOAA ETL, Boulder CO 80305, USA
Fax: +1 303 497 7384
Email: Lev.A.Ostrovsky@noaa.gov

Xavier Leoncini
Centre de Physique Théorique, Aix-Marseille Université, CPT Campus de Luminy, Case 907
13288 Marseille Cedex 9, France
Fax: +33 4 91 26 95 53
Email: leoncini@cpt.univ-mrs.fr

Dimitry Volchenkov
The Center of Excellence Cognitive Interaction Technology
Universität Bielefeld, Mathematische Physik Universitätsstraße 25 D-33615 Bielefeld, Germany
Fax: +49 521 106 6455
Email: volchenk@physik.uni-bielefeld.de

Associated Editors

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

Nikolai A. Kudryashov
Department of Applied Mathematics
Moscow Engineering and Physics Institute (State University), 31 Kashirskoe Shosse
115409 Moscow, Russia
Fax: +7 495 324 11 81
Email: kudryashov@mephi.ru

Jose Antonio Tenreiro Machado
ISEP-Institute of Engineering of Porto
Dept. of Electrotechnical Engineering
Rua Dr. Antonio Bernardino de Almeida
4200-072 Porto, Portugal
Fax: +351 22 8321159
Email: jtm@dee.isep.ipp.pt

Dumitru Baleanu
Department of Mathematics and Computer Sciences
Cankaya University, Balgat
06530 Ankara, Turkey
Email: dumitru@cankaya.edu.tr

Gennady A. Leonov
Department of Mathematics and Mechanics
St-Petersburg State University
198504, Russia
Email: leonov@math.spbu.ru

Josep J. Masdemont
Department of Matematica Aplicada I
Universitat Politecnica de Catalunya (UPC)
Diagonal 647 ETSEIB
08028 Barcelona, Spain
Email: josep@barquins.upc.edu

Marian Gidea
Department of Mathematics
Northeastern Illinois University
Chicago, IL 60625, USA
Fax: +1 773 442 5770
Email: mgidea@neiu.edu

Albert C.J. Luo
Department of Mechanical and Industrial Engineering, Southern Illinois University
Edwardsville, IL 62026-1805, USA
Fax: +1 618 650 2555
Email: aluo@siue.edu

Miguel A.F. Sanjuan
Department of Physics
Universidad Rey Juan Carlos
Tulipán s/n, 28933 Mostoles Madrid, Spain
Fax: +34 91 664 74 55
Email: miguel.sanjuan@urjc.es

Ranis N. Ibragimov
Department of Mathematics
University of Texas at Brownsville
TX 78520, USA
Fax: +1 956 882 6637
Email: ranis.ibragimov@utb.edu

E.N. Macau
Lab. Associado de Computção e Mateática Aplicada, Instituto Nacional de Pesquisas Espaciais, Av. dos Astronautas, 1758 12227-010 Sáo José dos Campos –SP Brazil
Email: elbert@lac.inpe.br

International Advisory Editors Board

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

Didier Bénisti
CEA, DAM, DIF 91297 Arpajon Cedex France
Fax: +33 169 267 106
Email: didier.benisti@cea.fr

Alexandre N. Carvalho
Departamento de Matem´atica, Instituto de Ci^encias Matem´aticas e de Computa¸c˜ao Universidade de S˜ao Paulo - Campus de S˜ao Carlos, Caixa Postal 668, 13560-970 S˜ao Carlos SP, Brazil
Email: andcarva@icmc.usp.br

Continued on back materials

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Editors
Valentin Afraimovich
Xavier Leoncini
Lev Ostrovsky
Dimitry Volchenkov

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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

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- 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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Continued from inside front cover

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

Michal Feckan
Department of Mathematical Analysis and Numerical Mathematics, Comenius University Mlynska dolina
842 48 Bratislava, Slovakia
Fax: +421 2 654 12 305
Email: michal.feckan@fmph.uniba.sk

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

N.H. Ibragimov
Department of Mathematics, IHN
Blekinge Institute of Technology
S-371 79 Karlskrona, Sweden
Fax: +46 455 385 407
Email: nail.ibragimov@bth.se

Tassilo Küpper
Mathematical Institute
University of Cologne, Weyertal 86-90
D-50931 Cologne, Germany
Fax: +49 221 470 5021
Email: kuepper@math.uni-koeln.de

Marc Leonetti
IRPHE, Aix-Marseille Université
UMR CNRS 6594, Technopôle de Château-Gombert 13384 Marseilles Cedex 13 France
Fax: + 33 4 13 55 20 01
Email: leonetti@irphe.univ-mrs.fr

Mikhail Malkin
Department of Mathematics and Mechanics
Nizhny Novgorod State University, Nizhny Novgorod, Russia
Fax: +7 831 465 76 01
Email: malkin@unn.ru

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

Dmitry E. Pelinovsky
Department of Mathematics & Statistics
McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada L8S 4K1
Fax: +1 905 522 0935
Email: dmpeli@math.mcmaster.ca

Alexander N. Pisarchik
Centro de Investigaciones en Optica
A.C. Loma del Bosque #115
Lomas del Campes-tre
37150 Leon Guanajuato, Mexico
Fax: +52 477 441 4209
Email: apisarch@cio.mx

Raul Rechtman
Centro de Investigacion en Energia
Universidad Nacional Autonoma de Mexico
Priv. Xochicalco S/N, Temixco
Morelos 62580, Mexico
Fax: +52 555 622 9791
Email: rrs@cie.unam.mx

Andrey Shilnikov
Neuroscience Institute and Department of Mathematics and Statistics
Georgia State University, 100 Piedmont Ave SE Atlanta GA 30303, USA
Fax: +1 404 413 6403
Email: ashilnikov@gsu.edu

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

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

Vladimir V. Uchaikin
Ulyanovsk State University
L.Tolstoy Str. 42
Ulyanovsk 432700, Russia
Fax: +7 842 232 90 14
Email: uchaikin@sv.uven.ru

Alexei A. Vasiliev
Space Research Institute
Profsoyuznaya 84/32
Moscow 117997, Russia
Fax: +7 495 333 12 48
Email: valex@iki.rssi.ru

Howard (Howie) Weiss
Department of Mathematics
Georgia Institute of Technology Atlanta
GA 30332, USA
Fax: +1 509 692 4516
Email: weiss@math.gatech.edu

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