



CALL FOR PAPERS

Conference on

Nonlinear Science and Complexity

July 28-31, 2008, Porto, Portugal



Workshop Scope

This conference will provide a place to exchange recent developments, discoveries and progresses on Nonlinear Science and Complexity. The aims of the conference are to present the fundamental and frontier theories and techniques for modern science and technology, and to stimulate more research interest for exploration of nonlinear science and complexity. The conference will focus on fundamental theories and principles, analytical and symbolic approaches, computational techniques in nonlinear physical science and nonlinear mathematics.

List of Topics

The general topics of interest in Nonlinear Physical Science and Complexity include but not limited to:

- Chaotic Dynamics and Transport in Classic and Quantum Systems
- Complexity and Nonlinearity in Molecular Dynamics and Nano-Science
- Complexity and Fractals in Nonlinear Biological Physics and Social Systems
- Lie Group Analysis and Applications in Nonlinear Science
- Nonlinear Hydrodynamics and Turbulence
- Bifurcation and Stability in Nonlinear Dynamic Systems
- Nonlinear Oscillations and Control with Applications
- Celestial Physics and Deep Space Exploration
- Nonlinear Mechanics and Nonlinear Structural Dynamics
- Non-smooth Systems and Hybrid Systems
- Fractional Dynamical Systems

Important Dates

Deadline for draft papers and special sessions submission: 15 May 2008 **Extended deadline!**

Notification of acceptance: 16 June 2008

Final manuscript and registration: 27 June 2008

Workshop: 28 - 31 July 2008

For more detailed information, please contact jtm@isep.ipp.pt.

Call for Papers

All papers should be submitted electronically via Online Paper Submission System. The format of submissions can be PS or PDF. If on-line submission is not possible send your draft to the NSC'08 secretariat, preferably through electronic submission, or by mail to: *J. A. Tenreiro Machado, ISEP - Institute of Engineering of Porto, Dept. of Electrotechnical Engineering, R. Dr. António Bernardino de Almeida, 4200-072 Porto, Portugal.*

Sessions focusing on particular topics are also invited. A special session should comprise 4 to 6 contributions. The proposal should contain a draft paper of each contribution. Papers submitted for special sessions are subject to the same review procedures as regular papers.

General Informations

Organized by

Institute of Engineering of Porto, Dept. of Electrotechnical Engineering, R. Dr. António Bernardino de Almeida, 4200-072 Porto, Portugal.

Tel: 351 22 8340500, Fax: 351 22 8321159, URL: <http://www.dee.isep.ipp.pt>

International Program Committee

Co-Chair: J. A. Tenreiro Machado

Co-Chair: Albert Luo

Co-Chair: George Zaslavsky

Eugene Benilov (Ireland)
Maurice Courbage (France)
Liming Dai (Canada)
Ramiro Barbosa (Portugal)
Maria Luz Gandarias (Spain)
Marian Gidea (USA)
James A. Glazier (USA)
Ling Hong (China)
Zhongliang Jing (China)
Nail Ibragimov (Sweden)
Manuel Silva (Portugal)
Shaofan Li (USA)
Weihua Li (Australia)
YangQuan Chen (USA)
Ali Nayfeh (USA)
Valentine Afraimovich
(Mexico)

Shijun Liao (China)
J. A. Tenreiro Machado (Portugal)
Nikolai A. Magnitskii (Russia)
David P Mason (South Africa)
Lev Ostrovsky (USA)
Dmitry E. Pelinovsky (Canada)
Sergey Prants (Russia)
Lino Figueiredo (Portugal)
Lev Shemer (Israel)
Victor I. Shrira (UK)
Jian Qiao Sun (USA)
Mikito Toda (Japan)
Pei Yu (Canada)
Jocelyn Sabatier (France)
Ahmed Al-Jumaily (New Zealand)
Juan Trujillo (Spain)

M.V. Zakrzhevsky (Latvia)
M.H. Elahinia (USA)
V. Kumaran (India)
Dirk Roose (Belgium)
Jacky Cresson (France)
Igor Podlubny (Slovak Republic)
Leonid Bunimovich (USA)
Giulio Casati (Italy)
Blas Vinagre (Spain)
Xavier Leoncini (France)
Surjalal Sharma (USA)
Cristel Chandre (France)
József Tar (Hungary)
Dumitru Baleanu (Turkey)
Hamid Hamidzadeh (USA)
Vladimir Zeitlin (France)

National Organizing Committee

J. Tenreiro Machado (Portugal)
Ramiro Barbosa (Portugal)

Manuel Silva (Portugal)
Alexandra Galhano (Portugal)

Lino Figueiredo (Portugal)

Venue for the Workshop

Conference will take place at the Institute of Engineering of Porto, R. Dr. António Bernardino de Almeida, 4200-072 Porto, Portugal. For further information on the conference site, see: <http://www.gecad.isep.ipp.pt/NSC08>

Email: nsc08@dee.isep.ipp.pt

Website: <http://www.gecad.isep.ipp.pt/NSC08>

