

CHAOS 2011

4th Chaotic Modeling and Simulation International Conference

May 31 - June 3, 2011 Agios Nikolaos, Crete Greece

J. A. T. Machado (ISEP-Institute of Engineering of Porto, Porto, Portugal)

P. Manneville (Laboratoire d'Hydrodynamique, Ecole Polytechnique, France)

A. S. Mikhailov (Fritz Haber Institute of Max Planck Society, Berlin, Germany)

S. V. Prants (Pacific Oceanological Institute of RAS, Vladivostok, Russia)

D. Sotiropoulos (Technical University of Crete, Chania, Crete, Greece)

W. M. Macek (Cardinal Stefan Wyszynski University, Warsaw, Poland)

V J Law (Dublin City University, Glasnevin, Dublin, Ireland)

P. Mahanti (University of New Brunswick, Saint John, Canada)

G. M. Mahmoud (Assiut University, Assiut, Egypt)

M. S. M. Noorani (University Kebanosaan Malaysia)

G. Pedrizzetti (University of Trieste, Trieste, Italy)

G. V. Orman (Transily ania University of Brasov, Romania)

S. Panchev (Bulgarian Academy of Sciences, Bulgaria)

F. Pellicano (Universita di Modena e Reggio Emilia, Italy)

A.G. Ramm (Kansas State University, Kansas, USA)

V. Snasel (VSB-Technical University of Ostrava, Czech)

J. C. Sprott (University of Wisconsin, Madison, WI, USA)

G. Rega (University of Rome "La Sapienza", Italy)

P. D. Spanos (Rice University, Houston, TX, USA)

S. Thurner (Medical University of Vienna, Austria)

D. Trigiante (Universit? di Firenze, Firenze, Italy)

A. Valvaev (Nuclear Safety Institute of RAS. Russia)

J. P. van der Weele (University of Patras, Greece)

University, Latvia)

M. V. Zakrzhevsky (Institute of Mechanics, Riga Technical

G. Unal (Yeditepe University, Istanbul, Turkey)

H. Skiadas (Hanover College, Hanover, USA)

B. Spagnolo (University of Palermo, Italy)

E. R. Miranda (University of Plymouth, UK)

V. Lucarini (University of Bologna, Italy)



Honorary Committee

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EECS Department, University of California, Berkeley, USA, Editor of the International Journal of Bifurcation and Chaos

Donghua University, Shanghai, China, Editor of Int. Journal of Nonlinear Sciences and Numerical Simulation

Gannady A. Leonov

Dean of Mathematics and Mechanics Faculty, Saint-Petersburg State University, Russia, Member (corresponding) of Russian Academy of Science

David Ruelle

Academie des Sciences de Paris, Honorary Professor at the Institut des Hautes Etudes Scientifiques of Bures-sur-Yvette. France

Ferdinand Verhulst

Mathematics Faculty, Utrecht, The Netherlands

Conference Topics

- 1. Chaos and Nonlinear Dynamics
- 2. Stochastic Chaos
- 3. Chemical Chaos
- 4. Data Analysis and Chaos
- 5. Hydrodynamics, Turbulence and Plasmas
- 6. Optics and Chaos
- 7. Chaotic Oscillations and Circuits
- 8. Chaos in Climate Dynamics
- 9. Geophysical Flows
- 10. Biology and Chaos
- 11. Neurophysiology and Chaos
- 12. Hamiltonian Systems
- 13. Chaos in Astronomy and Astrophysics
- 14. Chaos and Solitons
- 15. Micro- and Nano- Electro-Mechanical Systems
- 16. Neural Networks
- 17. Chaos, Ecology and Economy



Conference Location: Agios Nikolaos, Crete Greece

Local Co-Organiser: Yiannis Dimotikalis

Technological Educational Institute of Crete, Agios Nikolaos Branch

Contact: Anthi Katsirikou

Website: http://www.cmsim.org

Conference Secretary Email: secretariat@cmsim.org

International Scientific Committee

- C. H. Skiadas (Technical University of Crete, Chania, Greece), Chair
- H. Adeli (The Ohio State University, USA)
- J.-O. Aidanpaa (Division of Solid Mechanics, Lulea University of Technology,
- N. Akhmediev (Australian National University, Australia)
- M. Amabili (McGill University, Montreal, Canada)
- J. Awreicewicz (Technical University of Lodz. Poland)
- J. M. Balthazar (UNESP-Rio Claro, State University of Sao Paulo, Brasil)
- S. Bishop (University College London, UK)
- T. Bountis (University of Patras, Greece)
- Y. S. Boutalis (Democritus University of Thrace, Greece)
- C. Chandre (Centre de Physique Theorique, Marseille, France)
- M. Christodoulou (Technical University of Crete, Chania, Crete, Greece)
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- D. Dhar (Tata Institute of Fundamental Research, India)
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- G. Fagiolo (Sant'Anna School of Advanced Studies, Pisa, Italy)
- V. Grigoras (University of Iasi, Romania)
- K. Hagan, University of Limerick, Ireland
- L. Hong (Xi'an Jiaotong University, Xi'an, Shaanxi, China)
- G. Hunt (Centre for Nonlinear Mechanics, University of Bath, Bath, UK)
- T. Kapitaniak (Technical University of Lodz, Lodz, Poland)
- G. P. Kapoor (Indian Institute of Technology Kanpur, Kanpur, India)
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- A. Kolesnikov (Southern Federal University, Russia)
- J. Kretz (University of Music and Performing Arts, Vienna, Austria)
- V. Krysko (Dept. of Math. and Modeling, Saratov State Technical University,
- W. Li (Northwestern Polytechnical University, China)
- B. L. Lan (School of Engineering, Monash University, Selangor, Malaysia)

The Conference includes three types of presentations

Key Note Presentations on the main topics of the Conference selected by the Program Committee:

Contributed papers or posters proposed by authors;

Special Sessions or Workshops proposed from people working in a special topic of the chaotic field Every Special Session includes 4-6 presentations. Two or more special sessions form a Workshop The session organizer is responsible for the selection and the review process of the papers of his session.

A collection of the best papers presented in the three previous CHAOS Conferences are included in the following books published by World Scientific

- 1. Topics on Chaotic Systems: Selected Papers from the CHAOS2008 International Conference, C. H. Skiadas et al. Eds, World Scientific, 2009.
- 2. Chaotic Systems: Theory and Applications, C. H. Skiadas and I. Dimotikalis, Eds, World Scientific, 2010.
- 3. Chaos Theory: Modeling, Simulation and Applications: Selected Papers from the CHAOS2010 International Conference, C.
- H. Skiadas et al. Eds, World Scientific, forthcoming.



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