



CHAOS 2008

Chaotic Modeling and Simulation International Conference

June 3 - 6 Chania Crete Greece

(www.asmda.net/chaos2008)

International Program Committee

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M. Wiercigroch (University of Aberdeen, Aberdeen, Scotland, UK)

Plenary Lectures and Key-Note

Hojjat Adeli, The Ohio State University, USA

[Chaos in the Brain: Chaos-Wavelet Models for EEG-Based Diagnosis of Neurological Disorders](#)

Julien Clinton Sprott, University of Wisconsin, Madison, WI, USA

[Chaotic Dynamics on Large Networks](#)

Sergey V. Prants, Pacific Oceanological Institute of the RAS Vladivostok, RUSSIA

[Chaotic Advection in the Ocean](#)

Tomasz Kapitaniak, Institute of Applied Mechanics, Technical University of Lodz, POLAND

Nail Akhmediev, Institute of Advanced Studies, Australian National University, Canberra, Australia

[Chaotic Solitons in Dissipative Systems](#)

Tassos Bountis, Department of Mathematics and Center for Research and Applications of Nonlinear Systems
University of Patras, Patras, GREECE

Bogdan I. Epureanu, Department of Mechanical Engineering, University of Michigan-Ann Arbor, USA

[Creating and Exploiting Nonlinear and Chaotic Dynamics for System Interrogation in Sensing and Damage Detection](#)

Valerio Lucarini, Department of Physics, University of Bologna, Bologna, Italy

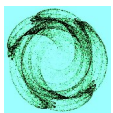
[Response Theory for Equilibrium and Non-Equilibrium Statistical Mechanics: Causality and Generalized Kramers-Kronig Relations](#)

Alexander G. Ramm, Mathematics Department, Kansas State University, Manhattan, Kansas, USA

[Creating Materials with a Desired Refraction Coefficient](#)

The forthcoming International Nonlinear Conference (Chaos2008) on Chaotic Modeling, Simulation and Applications will take place at the MAICH Conference Centre, Chania, Crete, Greece (June 3-6, 2008). The general topics and the special sessions proposed for the Conference include but are not limited to:

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



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