

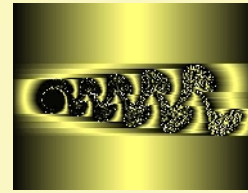


CHAOS 2009

2nd Chaotic Modeling and Simulation International Conference

June 1 - 5, 2009 Chania Crete Greece

www.chaos2009.net



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

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

Plenary and Keynote Lectures

Marco Amabili

Department of Mechanical Engineering, DMcGill University, Montreal, Canada

[Chaotic Vibrations of Circular Cylindrical Shells: Garkelin versus reduced-order models](#)

George Contopoulos

Research Center for Astronomy and Applied Mathematics, Academy of Athens, Athens, Greece

[Stickiness and Chaos](#)

Leon D. Iasemidis

Associate Editor, Int. J. Neural Systems, Director and Founder, The Brain Dynamics Laboratory

The Harrington Department of Bioengineering and Electrical Engineering, Arizona State University, USA

[Chaos, Brain and Epilepsy: A Bioengineering approach](#)

Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Tel Aviv, Israel

[Multidimensional Visualization and its Applications](#)

Pier A. Mello

Institute of Physics, Universidad Nacional Autonoma de Mexico, Mexico

[Quantum Mechanical scattering and transport: from cavities with a chaotic classical dynamics](#)

Sergey V. Prants

Pacific Oceanological Institute of the Russian Academy of Sciences, Vladivostok, Russia

[Quantum chaos with atoms in a laser field](#)

Alexander G. Ramm

Mathematics Department, Kansas State University, Manhattan, USA

[Acoustic and electromagnetic wave scattering by many small particles and creating materials with desired properties](#)

Giuseppe Rega

Department of Structural Engineering and Geotechnical Engineering, University of Rome 'La Sapienza', Italy

[Experimental unfolding and theoretical model of the transition to complex dynamics in sagged cables](#)

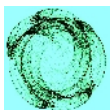
Pol D. Spanos

Department of Mechanical Engineering and Materials Science, Department of Civil and Environmental Engineering, Rice University, Houston, TX, USA, Editor, Journal of Probabilistic Mechanics and Journal of Nonlinear Mechanics

[Simulation Algorithms for Nonlinear Stochastic Dynamics Problems](#)

The forthcoming 2nd International Nonlinear Analysis Conference (Chaos2009) on Chaotic Modeling, Simulation and Applications will take place at the MAICH Conference Centre, Chania, Crete, Greece (June 1-5, 2009). 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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