Enoc 2011 Minisymposia

Reduced-Order Modeling and System Identification
L. Bergman (USA), A. Steindl (Austria), A. Vakakis (USA)

Asymptotic Methods
I. Andrianov (Germany), J. Awrejcewicz (Poland), L. I. Manevitch (Russia)

Computational Methods
H. Dankowicz (USA), E. Doedel (Canada)

Experiments in Nonlinear Dynamics and Control
W. Lacarbonara (Italy), N. van de Wouw (The Netherlands), H. Yabuno (Japan)

Slow-Fast Systems and Phenomena
A.I. Neishtadt (UK/Russia), D. Quinn (USA), J.J. Thomsen (Denmark)

Fractional Derivatives
O. P. Agrawal (USA), A. K. Belyaev (Russia), J.A. Tenreiro Machado (Portugal)

Dynamics and Optimization of Multibody Systems
J. Ambrosio (Portugal), F.L. Chernousko (Russia), P. Eberhard (Germany)

Nonlinear Phenomena in Mechanical and Structural Systems
B. Balachandran (USA), S. Natsiavas (Greece), F. Vestroni (Italy)

Nonlinear Dynamics of Structures and Machines
M.P. Cartmell (UK), Y.V. Mikhlin (Ukraine), K.V. Avramov (Ukraine)

Non-Smooth Systems
A. Ivanov (Russia), C. Lamarque (France), R. Leine (Switzerland)

Systems with Time Delay
T. Kalmar Nagy (USA), K. Pyragas (Lithuania)

Micro- and Nano-Electro-Mechanical Systems
S. Krylov (Israel), J. Rhoads (USA)

Nonlinear Dynamics of Biological Systems
G. Domokos (Hungary), N. Perkins (USA), G. van der Heijden (UK)

Nonlinear Dynamics for Engineering Design
B. Epureanu (USA), S. Lenci (Italy), M. Wiercigroch (UK)

Energy Transfer in Nonlinear Systems
O. Gendelman (Israel), G. Kerschen (Belgium)

Nonlinear Stochastic Systems
M. Di Paola (Italy), N. Sri Namachchivaya (USA), A. Naess (Norway)

Hybrid Mechanical Systems
M. di Bernardo (Italy), P. Kowalczyk (UK), P. Piidroinen (Ireland)

Control and Synchronization of Chaos and Complex Dynamics
S. Boccaletti (Italy), A. Fradkov (Russia)

Fluid-Structure Interaction
H. Aref (USA, Denmark), O. Gottlieb (Israel), A. Metrikine (The Netherlands)

Working Language
English will be the official language of the Conference. No simultaneous translation will be provided.

Keynote Lecturers

G. Benettin, University of Padua, Italy
G. Ron Chen, City University of Hong Kong, China
F. Chernousko, Russian Academy of Sciences, Moscow
M. Golubitsky, Mathematical Biosciences Institute, OH
T. Mullin, Manchester Centre Nonlinear Dynamics, U.K.
A. Nayfeh, Virginia Polytechnic Institute, VA

Steering Committee

G. Rega, Sapienza University of Rome (Chair)
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M. Di Paola, University of Palermo
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A. Luongo, University of L’Aquila
G. Solari, University of Genova

EUROMECH Nonlinear Oscillations Conference Committee

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J.A.C. Ambrosio, Portugal
F. Chernousko, Russia
P. Eberhard, Germany
A. Fradkov, Russia
S.J. Hogan, U.K.
C. Lamarque, France
T. Mullin, U.K.
S. Natsiavas, Greece
G. Rega, Italy
J.J. Thomsen, Denmark

Important Dates:
- Deadline for submission: November 15, 2010
- Notification of acceptance: February 15, 2011
- Final Short Paper or non-mandatory six-page Paper: April 15, 2011
- Conference: July 24-29, 2011
The topics of ENOC 2011 include but are not limited to:

- Models and methods (analytical, numerical, geometrical, symbolic, experimental) in nonlinear dynamics.
- Qualitative and quantitative analysis of nonlinear dynamic systems.
- Nonlinear dynamics of continuous, discontinuous and hybrid systems.
- Bifurcations and chaos.
- Nonlinear stochastic systems.
- Nonlinear dynamic phenomena.
- Control of oscillations and chaos.
- Applications in mechanics at different scales, and real problems from any branch of engineering science including mechanical, civil, electronic, electrical, communication, medical, materials.
- Cross-disciplinary topics from applied mathematics, physics, biophysics, genetics, nanotechnology, finance, medicine and earth sciences.

Regular Sessions will be organized, besides Minisymposia. Contributions may be assigned either to Lecture Sessions or to Poster Discussion Sessions. Industrial companies are invited to participate in product exhibition (please contact the organizers).

Submission of Short Papers

Short Papers (two pages) should be submitted by November 15, 2010 to the Organizing Committee. All Short Papers will be reviewed. Interested contributors of accepted Short Papers will be also entitled to submit a non-mandatory six-page Paper by April 15, 2011. No more than two Short Papers/Papers for each presenting author will be accepted. The site for online submission with the relevant instructions will be open mid-September, 2010.

Conference Proceedings

Short Papers and Papers will be published as Conference Proceedings in two parts, in digital format.

Young Scientist Prizes

Two prizes will reward the best two presentations given during ENOC 2011 by young scientists (less than 35 years old).

Location

Rome is considered as one of the most beautiful and culturally rich city in the world, with its many historical and artistic sites from the Roman Age, Middle Age, Renaissance, Baroque, and Contemporary Time, including masterpieces from Vatican, several city amenities, charming suburbs and neighborhoods.

Conference Venue

The Conference will be held at the Sapienza University of Rome. The Opening Session will take place in the Main Auditorium Building of the Central University Campus located close to the Termini Railway Station. All of the other Sessions (Oral and Poster) will take place at the Faculty of Engineering of the University, within a former Renaissance monastery conveniently located in the very centre of Rome, close to the Colosseum and to the Roman Forum. This two-venue location will give the participants the possibility to visit different University settlements.

Social Program

The social program will include a welcome reception, a half-day excursion, and a banquet. These events will be included in the Registration Fee of fully registered participants and registered accompanying persons. Some cultural events highlighting aspects of the “Eternal City” will be also organized.

Address of Organizing Committee

Prof. Giuseppe Rega (Chair)
Prof. Francesco Romeo (General Secretariat)
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