The Third International Conference on Dynamics, Vibration and Control
12-14 May 2010
(ICDVC-2010)
Hangzhou, China

http://saa.zju.edu.cn/icdvc2010

The First Announcement and Call for Papers

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Xi’an Jiaotong University
Zhejiang University
Aims and Scope

Dynamics, vibration and control are among the most active scientific frontiers in sciences and engineering in recent years, and ICDVC-2010 is devoted to this important research areas.

The aim of ICDVC-2010 is to bring together the international leading scientists of dynamics, vibration and control communities, both theoreticians and experimentalists, and to present their original research work of very high quality. The themes of the conference are intended to be broad enough so as to cover most of the directions in dynamics, vibration and control, promoting wide interactions among different academic disciplines. Mathematical theory, numerical simulation, physical experiments, engineering design, information technique, biological and financial studies, and their various applications are included in the main program of the conference. The conference also provides an excellent opportunity to researchers from different fields of science and engineering, both experts and new comers, for sharing ideas, experience and progress, and exploring new directions and problems among specialists in these fascinating areas of science and technology in the 21st century.

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G.R. Chen  City University of Hong Kong, China
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H.Y. Hu  Beijing Institute of Technology, China
J. Kurths  University of Potsdam, Germany
G.A. Leonov  St. Petersburg State University, Russia
Q.S. Lu  Beijing University of Aeronautic and Astronautics, China
M. Wiercigroch  University of Aberdeen, UK

Topic of the Conference

1. Nonlinear Dynamics of Discrete and Continuous Systems
   General Theory and Numerical Methods of Bifurcation and Chaos
   Bifurcation and Chaos in Hamiltonian Systems
   Dynamics of Non-smooth Systems
   Dynamics of Time-delay Systems
   Dynamics of Stochastic Systems
   Pattern Formation and Complex Systems
   Control of Bifurcations and Chaos
   Synchronization of Chaotic Systems

2. Mechanical Vibration and Control
   Free and Excited Vibrations in Linear or Nonlinear Structures and Machinery
   Collision or/and Friction Induced Vibrations
   Random Vibration and Control
   Vibration and Control of Mech-electrical Coupled Systems
   Vibration and Control of Rotor Systems
3. Control Theory and Application
   - Adaptive and Optimal Control
   - Control of Distributed Parameter Systems
   - Nonlinear Control
   - Stochastic Control
   - Robust Control

4. Dynamics and Control in Multi-body Systems
   - Theory and Computation of Dynamics and Control in Multi-body Systems
   - Contact and Impact Problems in Multi-body Systems
   - Numerical Simulation and Experiment Research
   - Engineering Applications

5. Analytical Dynamics
   - Hamiltonian Dynamics and Birkhoffian Dynamics
   - Dynamics with Holonomic and Nonholonomic Constraints
   - Symmetry and Conservation
   - Mathematical Methods in Dynamics

6. Dynamics in Engineering, Biology, Economy and Other Related Fields
   - Neurodynamics
   - Dynamics in Ecology, Epidemic and Environmental Sciences
   - Dynamics of Biological Systems
   - Dynamics and Control of Complex networks
   - Economy and Finance Dynamics
   - Dynamic Signal Processing, Monitoring and Diagnostics in Engineering Systems
   - Dynamics and Vibration of Micro-Systems and Micro-Structures
   - Dynamics Analysis in Nano- Systems
   - Dynamics of Railroad Vehicles and Transportation Systems
   - Spacecraft Dynamics and Control

Proceedings and Special Issues
   The extended abstracts will be published in the Conference Proceedings with CD-ROM. A number of selected full papers will be recommended to publish in the following international journals after the conference:
   1. International Journal of Bifurcation and Chaos;
   2. Journal of Sound and Vibration;
   3. Science in China E, G;

Abstract Submission
   The abstract should include the following contents:
   1) Corresponding author and his address;
   2) Objective and novelty of the research;
   3) Methods and techniques;
   4) Main results;
   5) Conclusions;
6) Main references.

A template of the extended abstract is available for download as Microsoft WORD file in the following address:
Please submit your extended abstract by e-mail as attachments in MS-WORD format to secretary Ms. W.W. Huang at weiqiuzhu@zju.edu.cn before September 30, 2009

After reviewed by the scientific committee, the acceptance of all abstracts will be notified to the corresponding author, and revised extended abstract or full papers should be sent to secretary Ms. W.W. Huang at weiqiuzhu@zju.edu.cn for publication of the Conference Proceedings before February 28, 2010. Some selected papers will be further recommended for publication in international peer-reviewed journals.

Mini-symposia Proposals

Proposals of organizing special mini-symposia are welcome and encouraged, in which the following information should be indicated: title of the mini-symposium; name, affiliation, mailing address and e-mail address of the proposer(s); description of the topic of the mini-symposium (not exceeding 100 words); estimated numbers of speakers. The deadline for mini-symposia proposal submission is May 31, 2009. Please send your proposal to Prof. W.Q. Zhu at wqzhu@yahoo.com

Location

The conference will be held in Hangzhou. Hangzhou is one of the most beautiful cities in China, one of the seven ancient capitals in the Chinese history, and full of cultural heritages. It is also known as the Town of Fish and Rice, House of Silk, Capital of Tea, and therefore the Paradise of the Earth. Hangzhou is located on the east coast of China, about 200 kilometers southwest of Shanghai. It can easily reached by air from shanghai, Beijing or Hong Kong, or by train or car from Shanghai. For the travel and tourist information, please see http://saa.zju.edu.cn/icdvc2010.

Social Program

The social program is open to all registered participants and registered accompanying persons. Post-conference tours will be arranged by a travel agency. Detailed information will be announced in the second circular.

Pre-registration

Please download the pre-registration form in the following address:
Please submit your pre-registration form to secretary Ms. W.W. Huang at weiqiuzhu@zju.edu.cn before September 30, 2009

Important Dates
ICDVC-2010       HANGZHOU

May 31, 2009       Mini-symposium proposal submission
September 30, 2009 Pre-registration, Extended abstract submission
December 31, 2009  Notification of acceptance
February, 28, 2010 Revised extend abstract or full paper submission

Contact Information

Inquiries, suggestions and comments are welcome. Please send them to the secretary:

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