



The Second Announcement for ICDVC-2014

**The 4th International Conference
on Dynamics, Vibration and Control**

August 23-25, 2014, Shanghai, China

<http://www.icdvc2014.org/>

Sponsor:

Chinese Society of Theoretical and Applied Mechanics (CSTAM)

Organizer:

**Shanghai Institute of Applied Mathematics and Mechanics (SIAMM),
Shanghai University**

Co-sponsors (partial list):

The National Natural Science Foundation of China (NSFC)

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Nanjing University of Aeronautics and Astronautics

PLA University of Science and Technology

Shanghai Jiao Tong University

Shanghai Aerospace Administration

Tongji University

Xi'an Jiaotong University

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General Information

ICDVC-2014, the 4th International Conference on **Dynamics, Vibration and Control**, will be held on **August 23-25, 2014** in Shanghai, China.

Like its three predecessors in Beijing (1990), Beijing (2006), and Hangzhou (2010), the conference is sponsored by the Chinese Society of Theoretical and Applied Mechanics (CSTAM) and co-sponsored by the National Natural Science Foundation of China (NSFC) as well as some universities in China. The conference is organized by Shanghai Institute of Applied Mathematics and Mechanics (SIAMM), Shanghai University.

Dynamics, vibration and control compose of an active subdiscipline of mechanics, and ICDVC-2014 is devoted to the significant research field.

The aim of ICDVC-2014 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 other 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 subjects.

Both oral and poster presentations will be included in the conference program. Internationally leading experts will deliver keynote lectures at the ICDVC-2014. It is expected that 400 participators from various countries will attend the conference.

Chairs

H.Y. Hu	Beijing Institute of Technology, China
C.D. Mote, Jr.	University of Maryland, College Park, USA

Co-Chairs

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G.A. Leonov	St. Petersburg State University, Russia
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R. Parker	Virginia Tech, USA
F. Pellicano	University of Modena and Reggio Emilia, Italy
Z.K. Peng	Shanghai Jiao Tong University, China

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G. Radice	University of Glasgow, UK
O. Rossi	The University of Ostrava, Czech
S.K. Saha	Indian Institute of Technology, Indian
E. Schöll	Technische Universität Berlin, Germany
R. Seifried	University of Stuttgart, Germany
J. Śniatycki	University of Calgary, Canada
J.Q. Sun	University of California (Merced), USA
C.A. Tan	Wayne State University, USA
Q. Wang	Beihang University, China
R.B. Wang	East China University of Science and Technology, China
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J.H. Xie	Southwest Jiaotong University, China
J. Xu	Tongji University, China
W. Xu	Northwestern Polytechnical University, China
H. Yabuno	Keio University, Japan
J. Yang	RMIT University, Australia
S.P. Yang	Shijiazhuang Tiedao University, China
H.H. Yoo	Hanyang University, Korea
H. Yoshimura	Waseda University, Japan
D. Zenkov	North Carolina State University, USA
W. Zhang	Beijing University of Technology, China
W.D. Zhu	University of Maryland (Baltimore), USA

Keynote Speakers (partial list)

H.Y. Hu	Beijing Institute of Technology, China
D.J. Inman	University of Michigan, USA
G.A. Leonov	St. Petersburg State University, Russia
A.V. Metrikine	Delft University of Technology, Netherlands
G. Stépán	Budapest University of Technology and Economics, Hungary
K.W. Wang	University of Michigan, USA

Local Organizing Committee

Chair	L.Q. Chen
Co-Chair	X.M. Guo
Secretary General	H. Ding

Topics of the Conference

1. Nonlinear Dynamics

Stability and Bifurcation
Chaotic Dynamics
Fractals in Dynamics
Control and Synchronization of Complex Systems

2. Vibration and Control

Vibration Analysis of Discrete or Continuous Systems
Passive and Active Vibration Controls
Signal Processing, Monitoring and Diagnostics
Mech-electrical Systems, Rotor Systems, and Other Engineering Application

3. Multi-body Systems

Modeling and Control of Multi-body Systems
Contact and Impact Problems
Numerical Simulations
Experimental Investigations
Engineering Applications

4. Analytical Mechanics

Systems with Constraints
Symmetry and Conservation
Birkhoffian Dynamics
Mathematical Methods in Analytical Dynamics

5. Interdisciplinary Topics

Neurodynamics
Dynamics in Ecology, Epidemic and Environmental Sciences
Dynamics of Biological Systems
Economy and Finance Dynamics
Micro-Systems, Micro-Structures and Nano- Systems
Dynamics of Railroad Vehicles and Transportation Systems
Spacecraft Dynamics and Control

Submissions

1. The short abstract

Participants are invited to submit short abstracts on any of the conference topics. Short abstracts should be informative and carefully prepared, and new insights should be highlighted.

The short abstract should enable the Program Committee to judge the scientific merit of the paper. Short abstracts must be exclusively submitted through the conference website where step-by-step instructions are given. Short abstracts submitted by any other means will not be considered. **The**

length of each short abstract is strictly limited to two hundred words. Abstract longer than two hundred words will not be able to complete submission.

The deadline for short abstract submission is May 1, 2014. All contributed abstracts must be submitted before this deadline.

Authors whose abstracts have been accepted will be notified by e-mail in May 2014.

2. The two-page extended summary

The two-page extended summary should include the following information:

- 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 Microsoft WORD template of the two-page extended summary for review is available at

<http://www.icdvc2014.org/Two Page Abstract Sample.doc>

Please upload your extended summary via the conference website

<http://www.icdvc2014.org/>

or submit your extended summary by e-mail as attachments in MS-WORD format to Secretary Dr. H. Ding

icdvc2014@gmail.com

before July 1, 2014.

After reviewed by the scientific committee, the acceptance of all abstracts will be notified to the corresponding author. Some selected papers will be further recommended for publication in international peer-reviewed journals.

Poster Presentations

All accepted contributed posters will be presented in two morning sessions (August 24 and 25) and one afternoon session (August 23). These sessions provide the main forum for the presentation of latest research results and the discussion on recent progresses. **Posters may be presented only if the corresponding short abstract has been accepted and if at least one of the authors listed has registered for the conference.** Registered posters will be assigned a code indicating the day of presentation and the board at which it should be displayed. The posters may be set up after 9:00 on the day of presentation and must be removed by the author before 8:30 on the following morning.

Publications

The extended summary (2 A4 pages) for conference review will be posted on the website of the conference. A number of selected full papers will be recommended to publish in the following international journals subjected to peer review after the conference (partial list):

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1. Journal of Sound and Vibration,
 2. International Journal of Bifurcation and Chaos,
 3. International Journal of Dynamics and Control,
 4. Acta Mechanica Sinica,
 5. Science in China G,
 6. Applied Mathematics and Mechanics (English Edition),
 7. Theoretical & Applied Mechanics Letters,
 8. Journal of Dynamics and Control (in Chinese).

Mini-symposia Topics

1. Dynamics and Control of Time-Delay Systems
2. Nonlinear System Identification
3. Spacecraft Dynamics and Control
4. Nonsmooth Dynamics in Multibody System Dynamics
5. Dynamics in Micro&Nano Scale
6. Dynamics, Vibration and Control in MEMS&NEMS
7. Dynamics and Control in Mechanical System
8. Nonlinear Dynamics, Vibration and Control of Novel Composite Structures
9. Theory and Applications of Dynamics and Stability of Carbon Nanotube Thin Film
10. Spacecraft dynamic environment and experimental study
11. Cognitive Neurodynamics

Registration Fee

The registration fee for the participants, students and accompanying persons are (include attending all the sessions of ICDVC-2014, lunch, dinner, reception and banquet in Shanghai):

	Before July 1, 2014	After July 1, 2014
Overseas Participant	USD \$ 500	USD \$ 600
Overseas Accompanying Person	USD \$ 350	USD \$ 350
Overseas Student	USD \$ 400	USD \$ 450
Domestic Participant	RMB ¥ 3000	RMB ¥ 3500
Domestic Accompanying Person	RMB ¥ 2000	RMB ¥ 2000
Domestic Student	RMB ¥ 2400	RMB ¥ 2700

Important Deadlines

May 1, 2014	Short abstract submission
June 1, 2014	Notification of acceptance
July 1, 2014	Extended summary submission & early registration
August 10, 2014	Final Program on website

Conference Venue

ICDVC-2014 will be held at the Conference Center of the Grand Mercure Baolong Hotel - Shanghai Hotel, Shanghai, China.

Shanghai is the largest industrial and commercial city in China. Many best hotels arranging from 5-star hotels to budget hotels and campus hotel offering standard service and hospitality, could be your choice for accommodation.

Social Program and Tours

The following two social programs are open to all registered participants and registered accompanying persons:

During and after the conference, the organization committee will arrange two social programs for all registered participants and registered accompanying persons

1. A large welcome banquet is going to be held on August 23 2014;
2. To visit Huangpu River or other activities (To be determined).

The post-conference tours will be arranged by a travel agency.

For more detailed information about the social program and optional tours, please visit the conference website <http://www.icdvc2014.org/>.



Contacts

For manuscript/abstract submission, please contact our general secretary, Dr H. Ding at icdvc2014@gmail.com.

For programs and other enquiries, please contact our Local chair, Professor L.Q. Chen at icdvc2014@gmail.com.

The website of the conference is <http://www.icdvc2014.org/>

The organizing committee of the ICDVC-2014