

# The Second Announcement for ICDVC-2018

The 5<sup>th</sup> International Conference  
on Dynamics, Vibration and Control

July 28-30, 2018, Shijiazhuang, China

<http://www.icdvc.org/> <http://www.icdvc2018.org/>

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**Sponsor:**

Chinese Society of Theoretical and Applied Mechanics (CSTAM)

**Organizer:**

Shijiazhuang Tiedao University

**Co-sponsors (partial list):**

The National Natural Science Foundation of China (NSFC)

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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-2018**, the 5<sup>th</sup> International Conference on **Dynamics, Vibration and Control**, will be held on **July 28-30, 2018** in Shijiazhuang, China.

Like its four predecessor events held in Beijing (1990 and 2006), Hangzhou (2010), and Shanghai (2014), **ICDVC-2018** 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 other universities in China. The conference in 2018 is organized by Shijiazhuang Tiedao University.

Dynamics, vibration and control composes of an active sub-discipline of mechanics, and ICDVC-2018 is devoted to the significant research field.

The aim of ICDVC-2018 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-2018. It is expected that over 500 participants from various countries will attend the conference.

## Chair

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## International Scientific Committee (partial list, to be updated)

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<b>P.D. Spanos</b>	Rice University, USA
<b>S.K. Saha</b>	Indian Institute of Technology, Indian
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<b>J. Śniatycki</b>	University of Calgary, Canada
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<b>Q.Y. Wang</b>	Beihang University, China
<b>L. Wang</b>	Huazhong University of Science and Technology, China
<b>L. F. Wang</b>	Nanjing University of Aeronautics and Astronautics, China
<b>R.B. Wang</b>	East China University of Science and Technology, China
<b>Tamer Wasfy</b>	Indiana University-Purdue University Indianapolis, USA

<b>G.L. Wen</b>	Hunan University, China
<b>M. Wiercigroch</b>	Aberdeen University, UK
<b>Y. Xiang</b>	University of Western Sydney, Australia
<b>J.H. Xie</b>	Southwest Jiaotong University, China
<b>Y.P. Xiong</b>	University of Southampton, UK
<b>W. Xu</b>	Northwestern Polytechnical University, China
<b>H. Yabuno</b>	University of Tsukuba, Japan
<b>J. Yang</b>	RMIT University, Australia
<b>X.D. Yang</b>	Beijing University of Technology, China
<b>H.H. Yoo</b>	Hanyang University, Korea
<b>H. Yoshimura</b>	Waseda University, Japan
<b>D. Zenkov</b>	North Carolina State University, USA
<b>S.G. Zhan</b>	The National Natural Science Foundation of China
<b>W. Zhang</b>	Beijing University of Technology, China
<b>W. M. Zhang</b>	Shanghai Jiao Tong University, China
<b>W.D. Zhu</b>	University of Maryland (Baltimore), USA

### Keynote Speakers (partial list)

<b>Gabor Stepan</b>	Budapest University of Technology and Economics, HUN
<b>Dan Negrut</b>	University of Wisconsin-Madison, USA
<b>W.M. Zhai</b>	Southwest Jiao Tong University, China
<b>Eckehard Schöll</b>	Berlin University of Technology, GER
<b>G.K. Hu</b>	Beijing Institute of Technology, China
<b>Jürgen Kurths</b>	Humboldt University, GER
<b>H. Ashrafiuon</b>	Villanova University, USA

### Local Organizing Committee

<b>Chair</b>	Y.J. Shen
<b>Co-Chairs</b>	S.H. Li X.H. Li R.L. Tian C.D. Si
<b>Secretary General</b>	C.D. Si

### 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. In each mini-symposium, the participants should come from at least from 3 organizations in different countries. If the participants exceed 10 in each mini-symposium, the organizer could apply for the registration fee remission for one participant, or expert lecture fee USD \$ 400 (or RMB ¥ 2000). Moreover, when the participants in each mini-symposium exceed 20, the organizer may apply for the registration fee remission for two participants, or expert lecture fee USD \$ 800 (or RMB ¥ 4000). The deadline for mini-symposia proposal submission is December 30, 2017. Please send your proposal to Professor Y.J. Shen at [ICDVC2018@126.com](mailto:ICDVC2018@126.com).

## 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 and/or Continuous Systems
- Passive and Active Vibration Control
- Signal Processing, Monitoring and Diagnostics
- Electromechanical Systems, Rotor Systems, and Other Engineering Applications

### **3. Multi-body Systems**

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

### **4. Analytical Mechanics**

- Dynamical Systems with Holonomic or Noholonomic Constraints
- Symmetry and Conservation
- Birkhoffian Dynamics
- Mathematical Methods in Analytical Dynamics

### **5. Stochastic Dynamics**

- Theory and Methods of Nonlinear Stochastic Dynamics
- Response and Stability of Stochastic System
- Stochastic Bifurcation and Chaos
- Stochastic Nonsmooth System Dynamics
- Fractional-order Dynamics and Control

## 6. 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  
Fault Diagnosis and Condition Monitoring

## 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 December 31, 2017. All contributed abstracts must be submitted before this deadline.**

Authors whose abstracts have been accepted will be notified by e-mail in February 2018.

### 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.icdvc.org/Two\\_Page\\_Abstract\\_Sample.doc](http://www.icdvc.org/Two_Page_Abstract_Sample.doc)

or

[http://www.icdvc2018.org/Two\\_Page\\_Abstract\\_Sample.doc](http://www.icdvc2018.org/Two_Page_Abstract_Sample.doc)

Please upload your extended summary via the conference website

<http://www.icdvc.org/> or <http://www.icdvc2018.org/>

before March 1, 2018.

After reviewed by the scientific committee, the acceptance of all abstracts will be notified to the corresponding author.

## **Poster Presentations**

All accepted contributed posters will be presented in one evening sessions (July 29). This session provides 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.

## **Registration Fee**

The registration fee for the participants, students and accompanying persons are (include attending all the sessions of ICDVC-2018, lunch, dinner, reception and banquet in Shijiazhuang):

	<b>Before June 1, 2018</b>	<b>After June 1, 2018</b>
Overseas Participant	USD \$ 500	USD \$ 600
Overseas Accompanying Person	USD \$ 350	USD \$ 350
Overseas Student	USD \$ 400	USD \$ 450
Domestic Participant	RMB ¥ 2600	RMB ¥ 3000
Domestic Accompanying Person	RMB ¥ 2000	RMB ¥ 2000
Domestic Student	RMB ¥ 2000	RMB ¥ 2300

## **Important Dates**

December 30, 2017

Mini-symposium proposal submission

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December 31, 2017	Short abstract submission
February 1, 2018	Notification of acceptance
March 1, 2018	Extended summary submission & early registration
July 1, 2018	Final Program on website

### Conference Venue and Transportation

ICDVC-2018 will be held in Shijiazhuang city, Hebei Province, China.

Shijiazhuang is the capital city of Hebei Province. It has an outstanding transport network similar to its neighbor city of Beijing. High-speed train and aircraft are easily available. Transportations from Shijiazhuang Railway Station and Shijiazhuang Airport to Shijiazhuang Tiedao University are provided for each foreign participant. Domestic travels are as follows:

1. Beijing to Shijiazhuang. It takes only one hour from Beijing to Shijiazhuang via high-speed train. There will be volunteers waiting at the Beijing airport, responsible for accompanying the participants to Beijing high-speed railway station.
2. Shanghai to Shijiazhuang. Both high-speed train and aircraft are available. It takes seven hours travel via high-speed train, and only two hours by air. There are nearly 10 direct flights per day.
3. Guangzhou to Shijiazhuang. Both high-speed train and aircraft are available. It takes eight hours travel via high-speed train, and only three hours by air. There are three direct flights per day.

Accommodations ranging from 5-star hotels to budget hotels and campus hotel offering high quality to standard services and hospitality are available depending on your preferences.



## Social Activity and Tours

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

1. A large welcome banquet is going to be held;
2. A visit to Xibaipo-- Red Tourism Classic Site, Zhaozhou Bridge--The oldest stone arch bridge in the world, Longxing Temple--One of TOP 10 temples in China, and China's national training base of table tennis.

Post conference tours will be arranged by a travel agency.



## Contact Us

For more information, please contact our Local chair, Professor Y.J. Shen at [ICDVC2018@126.com](mailto:ICDVC2018@126.com).

The website of the conference is <http://www.icdvc.org/> or <http://www.icdvc2018.org/>.