

2017

May 28-30, 2017, Chongqing, China

The 29<sup>th</sup> Chinese Control and Decision Conference

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## CALL FOR PAPERS

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-Northeastern University (NEU), China  
 -IEEE Industrial Electronics (IE) Chapter, Singapore  
 -Technical Committee on Control and Decision of Cyber Physical Systems (TCCD-CPS), Chinese Association of Automation, China

### Local Organizers

-Chongqing University, China

### Technical Co-Sponsors

-IEEE Control Systems Society (CSS)  
 -Chinese Association for Artificial Intelligence (CAAI)  
 -Technical Committee on Control Theory (TCCT), Chinese Association of Automation  
 -State Key Lab. of Synthetical Automation for Process Industries, Northeastern Univ.

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Chinese Control and Decision Conference (CCDC) is an annual international conference. The 29th Chinese Control and Decision Conference (2017CCDC) will be held in **Chongqing, China, during May 28 – 30, 2017**. Its purpose is to create a forum for scientists, engineers and practitioners from all over the world to present the latest developments in Control, Decision, Automation, Robotics including Emerging Technologies.

**Conference papers written in English will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.**

The 29th CCDC covers both theory and applications in all the areas of systems, control and decision. **The topics of interest include, but are not limited to:**

**Control and Decision:** Adaptive control; Robust and H-infinity control; Process control; Variable structure control; Optimal control and optimization; Complex networks and systems; Cooperative control; Signal processing; Data processing; Data-driven control; Identification and estimation; Nonlinear systems; Intelligent systems; Discrete event systems; Game theory; Decision-making theory and method; Decision supporting system and production planning and scheduling; Supervisory control; Hybrid systems; Distributed parameter systems; Stochastic systems; Distributed control systems; Networked control systems; Sensor network systems; Fault diagnosis and fault-tolerant control; Delay systems; Neural networks; Fuzzy systems; Social economy systems; Motion control; Control applications; Control engineering education.

**Automation:** Man-machine interactions; Process automation; Intelligent automation; Factory modeling and simulation; Home, laboratory and service automation; Network-based systems; Planning, scheduling and coordination; Nano-scale automation and assembly; Instrumentation systems; CIMS and manufacturing systems

**Robotics:** Robot control; Mobile robotics; Mobile sensor networks; Perception systems; Micro robots and micro-manipulation; Visual servoing; Search, rescue and field robotics; Robot sensing and data fusion; Medical robots and bio-robotics; Human centered systems; Human robot interaction; Space and underwater robots; Tele-robotics; Multirobot systems

**Emerging Technologies:** Cyber-physical systems; Smart grids; Renewable energies; Energy management systems; Modeling, control and simulations of biological systems; Micro-electromechanical systems, Electric vehicles and intelligent transportation; Traffic control; Optimization and control of HVAC systems; Integrated systems and processes.

**Invited Sessions:** Prospective organizers are invited to directly submit proposals to the Special and Invited Session Chair, Prof. Zongli Lin ([z15y@virginia.edu](mailto:z15y@virginia.edu)).

#### Here Special Sessions:

- **Control and Management of Smart City.** For more details about it, please contact the Special Session Co-chair, Professor Yahui Wang ([yahui-wang@vip.sina.com](mailto:yahui-wang@vip.sina.com)).
- **IntelliSense and Advanced Sensing, Detection Technology.** For more details about it, please contact Professor Yong Zhao ([zhaoyong@ise.neu.edu.cn](mailto:zhaoyong@ise.neu.edu.cn)).
- **Fractional Calculus and Fractional-order Systems.** For more details about it, please contact Professor Dingyu Xue ([xuedingyu@mail.neu.edu.cn](mailto:xuedingyu@mail.neu.edu.cn)).

**Zhang Si-Ying (CCDC) Outstanding Youth Paper Award:** Authors under the age of 35 are eligible for the award. Selection of the award-winning paper will be made by the Award Evaluation Committee, based on both the technical contents and presentation.

There will be four **KEYNOTE ADDRESSES** and eight **DISTINGUISHED LECTURES** covering the **State-of-the-Art** in both theory and applications of **Systems, Control and Decision**

**Invited Keynote Addresses** will be delivered by

- Prof. Edwin K. P. Chong, Colorado State University, USA;
- Prof. Jiancheng Fang, Beihang University, China;
- Prof. Petros Ioannou, University of Southern California, USA;
- Prof. Stephen P. Boyd, Stanford University, USA.

**Invited Distinguished Lectures** will be delivered by

- Prof. Zhiyong Chen, University of Newcastle, Australia;
- Prof. Joe Dong, University of Sydney, Australia;
- Prof. Zhi-Hong Guan, Huazhong University of Science & Technology, China;
- Prof. Haibo He, Rhode Island University, USA;
- Prof. Min Huang, Northeastern University, China;
- Prof. Karl H. Johansson, KTH Royal Institute of Technology, Sweden;
- Prof. Hong Qiao, University of Chinese Academy of Sciences, China;
- Prof. Tie-Long Shen, Sophia University, Japan.

#### Submission Notices for Authors:

Full papers describing original work and special/invited session proposals should be submitted by **31 December, 2016**. Upon acceptance, authors will be required to register and present their papers at 2017 CCDC. **For further information, please refer to**

website - <http://www.ccdc.neu.edu.cn>; Email - [secretary\\_ccdc@ise.neu.edu.cn](mailto:secretary_ccdc@ise.neu.edu.cn)

**Authors of strong papers will be invited to submit an expanded version for possible publication in Journal of Control and Decision (JCD).**

The primary aim of the JCD is to provide a platform for scientists, engineers and practitioners throughout the world to present the latest developments in Control, Decision, Automation, Robotics including Emerging Technologies.

**For full Aims and Scope, please visit the journal's homepage: [www.tandfonline.com/tjcd](http://www.tandfonline.com/tjcd)**

### Important Dates:

Deadline for Full Paper submission	<b>31 December 2016</b>
Deadline for Invited Session Proposals	<b>31 December 2016</b>
Notification of Acceptance/Rejection	<b>10 February 2017</b>
Deadline for Camera Ready Manuscript Submission	<b>15 March 2017</b>
Deadline for Advance Registration	<b>15 March 2017</b>