

# The 11th World Congress on Intelligent Control and Automation

June 27 - 30, 2014, Shenyang, China

WCICA 2014

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## Poster Session Chairs

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## Tutorial Workshop Chairs

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Ben Chen, Singapore  
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## Panel Discussion Chairs

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Derong Liu, USA/China  
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## Award Committee Chairs

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## Conference Secretariat

Jialu Fan, China  
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## Call For Papers

The 11th World Congress on Intelligent Control and Automation (WCICA 2014) will be held in Shenyang, China, from June 27 to 30, 2014. WCICA 2014 is technically sponsored by IEEE Robotics and Automation Society, IEEE Control Systems Society, National Natural Science Foundation of China, the Chinese Association of Automation, and the Chinese Association of Artificial Intelligence.

WCICA 2014 features plenary keynotes and panel discussion sessions by the world leading researchers as well as awards to honor outstanding papers presented at this Congress. The awards include Best Paper on Theory, Best Paper on Applications, Best Student Paper, Best Poster Paper, Best Paper on Biomedical & Biosystem Related Areas, SUPCON Best Paper on Industrial Automation, and AIAG Best Paper on Supply Chain Related Topics.

All the accepted papers will be EI indexed. Moreover the extended version of presented papers at the congress will be considered for further publication in leading international journal.

It is our great pleasure to invite you to submit your original research papers to the Congress. WCICA 2014 also welcomes proposals for organizing Focused Theme Sessions on the conference topics and Tutorial Workshops on emerging topics. You are invited to submit focused theme session proposals to Prof. Simon X. Yang (syang@uoguelph.ca) before **December 1, 2013**. Please refer to the congress website for details.

Areas and topics of contributed papers include but are not limited to the following:

### A. Control Theory and Engineering

- A1. Control Theory
- A2. Intelligent Control Theory and Applications
- A3. Advanced Control Algorithms and Applications
- A4. Networked Control Systems
- A5. Nonlinear Systems and Control
- A6. Robust and Adaptive Control

### B. Engineering Optimization

- B1. Intelligent Optimization and Applications
- B2. Optimization for Industrial Automation Systems
- B3. Logistics and Supply Chain Optimization
- B4. Optimization for Decision Making Systems

### C. System Sensing, Modelling and Analysis

- C1. System Modelling and Parameter Estimation
- C2. Fault Diagnosis and Safe Operation
- C3. System Simulation
- C4. Online Monitoring for Systems
- C5. Measurement Methods and Intelligent Instrumentation
- C6. Sensors, Sensor Networks, Sensing and Signal Processing

### D. Big Data Automation

- D1. Big Data Analysis and Visualization
- D2. Data-driven Control
- D3. Data-driven Diagnosis
- D4. Data-driven Optimization, Scheduling, and Decision Making
- D5. Data-driven Operations and Quality Control
- D6. Data-based System Performance Analysis

### E. Intelligent Automation Systems

- E1. Artificial Intelligence and Knowledge Engineering
- E2. Pattern Recognition, Image Processing, and Machine Learning
- E3. Computational Intelligence and Applications
- E4. Robotics, NANO, MEMS and Mechatronics Systems
- E5. Intelligent Automation Systems for Manufacturing
- E6. Integrated Automation Systems
- E7. Smart Grid
- E8. Biomedical Systems and Biosystems Automation
- E9. Intelligent Transportation Systems
- E10. Cyber Physical Systems and Sensor Networks
- E11. eCommerce and Intelligent Automation Management Systems

### Important Dates

Full-length PDF Paper Submission :

Jan 15, 2014

Notification of Paper Acceptance :

April 1, 2014

Final IEEE PDF Compliant Paper Submission: April 15, 2014



<http://2014.wcica.info>