The 11th World Congress on Intelligent Control and Automation

June 27 - 30, 2014, Shenyang, China

WCICA 2014

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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.

The Proceedings of WCICA 2014 will be included in the IEEE Xplore database, as well as indexed by EI Compendex. 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, Tutorials and 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

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