The 12th World Congress on Intelligent Control and Automation (WCICA 2016)

JUNE 12–17, 2016, GUILIN, CHINA

Call for Papers

The 12th World Congress on Intelligent Control and Automation (WCICA 2016) will be held in Guilin, China, June 12–17, 2016. WCICA 2016 is technically sponsored by IEEE Control Systems Society, IEEE Robotics and Automation Society, National Natural Science Foundation of China, the Chinese Association of Automation, and the Institute of Automation, Chinese Academy of Sciences.

WCICA 2016 features plenary/keynote 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 & Bio-system Related Areas, IAG Best Paper on Supply Chain Related Topics, and SUPCON Best Paper on Industrial Automation.

It is our great pleasure to invite you to submit your original research papers to the Congress. The Proceedings of WCICA 2016 will be included in the IEEE Xplore database and indexed by EI Compendex. Outstanding papers presented novel research results at the Congress will be recommended to publish the expanded versions in the WCICA 2016 special issues in the selected leading international journals.

WCICA 2016 welcomes proposals for invited sessions reporting innovative research results on focused topics and tutorials and workshops on novel emerging research topics. Please submit invited sessions and tutorial/workshop proposals to the Congress Secretariat at wcica2016@foxmail.com by December 20, 2015. For more information about the Congress, please refer to the Congress website for details.

Important Dates

- Paper Submission Deadline: January 10, 2016
- Final Paper Submission & Author Registration: March 15, 2016
- Conference Date: June 12–17, 2016

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

A. Control Theory and Systems
   A.1 Linear Systems and Control
   A.2 Nonlinear Systems and Control
   A.3 Constrained Control
   A.4 Stability and Stabilization
   A.5 Robust Control
   A.6 Optimal Control
   A.7 Adaptive Control and Learning Control
   A.8 Process Control
   A.9 Predictive Control
   A.10 Variable Structure Control
   A.11 Guidance and Navigation
   A.12 System Modeling and Identification
   A.13 Networked Control Systems
   A.14 Stochastic Systems
   A.15 Chaotic Systems
   A.16 Distributed Parameter Systems
   A.17 Industrial Systems and Manufacturing
   A.18 Multi-Agent Systems and Distributed Control
   A.19. Advanced Control Algorithms and Applications
   A.20 Others

B. Intelligent Automation Systems
   B.1 Computational Intelligence and Applications
   B.2 Pattern Recognition, Image Processing, Machine Learning
   B.3 Neural Networks and Control
   B.4 Fuzzy Systems and Fuzzy Control
   B.5 Nature-inspired (e.g., GA, Swarm Optimization) Computing
   B.6 Complex Networks
   B.7 Smart Grids
   B.8 Memristor

C. Big Data Automation
   C.1 Big Data Analysis, Compressed Sampling and Visualization
   C.2 Data-based Modeling and Control
   C.3 Data-based Diagnosis
   C.4 Data-based Optimization, Scheduling, and Decision Making
   C.5 Data-based Operations and Quality Control
   C.6 Data-based System Performance Analysis
   C.7 Cloud Control, Computing and Services

D. Engineering Optimization
   D.1 Intelligent Optimization and Applications
   D.2 Optimization for Industrial Automation Systems
   D.3 Logistics and Supply Chain Optimization
   D.4 Optimization for Decision Making Systems
   D.5 Others

E. Sensing, Modeling and Analysis
   E.1 System Modeling and Parameters Estimation

F. Intelligent Robots and Brain-like Intelligence
   F.1 Fundamentals of robotics
   F.2 Industrial Robots and Intelligent Manufacturing
   F.3 Space Robots
   F.4 Ocean Robots
   F.5 Mobile Robots
   F.6 Medical Robots
   F.7 Service Robots and Intelligent Society
   F.8 Rehabilitation Robotics, Haptics and Assistive Technology
   F.9 Human-robot Interaction
   F.10 Motion Planning and Algorithms
   F.11 Sensory and Visual Feedback in Robots
   F.12 Robotics Applications
   F.13 Machine Intelligence
   F.14 Biologically-inspired Intelligence
   F.15 Brain-like Intelligence
   F.16 Deep Learning for Control and Automation
   F.17 Unmanned Aerial Vehicles and Autonomous Systems
   F.18 Others

G. Others

H. Invited Sessions

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Congress Website http://www.wcica2016.org
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