ICIEA 2014
THE 9th IEEE CONFERENCE ON
INDUSTRIAL ELECTRONICS AND APPLICATIONS
09 – 11 June 2014, Hangzhou, China
http://www.ieeiciea.org

ICIEA 2014 is a premier conference, providing an excellent forum for scientists, researchers, engineers and industrial practitioners throughout the world to present and discuss the latest technology advancement as well as future directions and trends in Industrial Electronics. Authors are invited to submit full papers describing original research work in areas including, but not limited to:

- **Industrial Informatics**: Human-machine interactions, Diagnosis and prognosis, Intelligent automation, Intelligent transportation system, Manufacturing execution systems, Networked embedded controllers, Machine-to-machine, Condition based monitoring, SAO, Multi-agent systems.
- **Computational Intelligence**: Artificial neural network, Fuzzy systems, Genetic algorithm, Evolutionary computing, Machine learning, Data mining.
- **Control and Systems**: Adaptive and intelligent control, Hybrid control, Digital control theory and development, Robust control, Nonlinear systems and control, Process control, Networked control, Cooperative control, Biocontrol.
- **Mechatronics**: Robotics, Sensors and actuators, Sensor fusion, High precision motion control, Micro electromechanical systems, Industrial automation, Remote operation.
- **Power Electronics**: Power devices and components, Power quality control, FACTS, PFC, STACOM, Harmonic analysis and compensations, Switching circuits and power converters, Motors and drives, Smart grid, Distribution generation and electrical vehicles.
- **Signal and Information Processing**: Image processing, Computer vision, Bio-image processing, Audio/video processing, Data processing, Estimation and identification, Remote sensing, Information fusion, Brain computer interface, Signal transforming and filtering, Digital system design and structures, Optimization techniques, Compressive sensing.
- **Network and Communication Technologies**: Network protocols, Mobile computing, Mobile ad hoc networks, Mobile agents, Network architectures, Quality of services, Cross-layer design/optimization, Design and performance evaluation, Traffic control, Wireless systems, MU-MIMO systems.
- **Optoelectronics and Optical Communication**: Fourier optics and signal processing, All-optical networks, Nonlinear optical signal processing, Discrete optical signal processing, Fiber optics sensors, Fiber optics communications.

**Invited and Special Sessions**: The Technical Program Committee is soliciting proposals for invited and special sessions focusing on topics relevant to the theme of the conference. Prospective organizers should submit proposals to the Invited Session Chairs, Dr. Hualiang Zhuang (hualiang@zjut.edu.cn) or Prof Weihai Chen (whchen@zjut.edu.cn) by the date listed in "Important Dates".

The 9th IEEE Conference on Industrial Electronics and Applications (ICIEA 2014) will be held during 09 – 11 June 2014, in Hangzhou, China. The Conference is organized by IEEE Industrial Electronics (IE) Chapter of Singapore Section and Zhejiang University of Technology. IEEE Industrial Electronics Society is the financial and technical sponsor.

Selected papers may be published in popular international journals. The proceedings of past ICIEA are included in the IEEE Xplore database and indexed by EI Compendex and ISI Proceedings. (except ICIEA 2013 which is in process.)