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The 7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012) will be held during 18 – 20 July 2012, in Singapore. The Conference is organized by IEEE Industrial Electronics (IE) Chapter of Singapore Section.

The Proceedings of all past ICIEA have been included in the IEEE Xplore database and indexed by EI Compendex and ISI Proceedings.

ICIEA 2012 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 maintenance, SOA, 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, Bio-control

Energy and Environment: Energy management and control systems, Energy distribution, storage and recovery, Alternative and green energy, Waste management, Waste treatment and recycling, Water network and security, Sensor technologies, Intelligent micro-grids

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, STATCOM, Harmonic analysis and compensations, Switching circuits and power converters, Motors and drives, Smart grid, Distribution generation and electrical vehicles

Signal Processing: Image processing, Computer vision, Bio-image processing, Audio/video processing, Data processing, Estimation and identification, Remote sensing

Network and Communication Technologies: Network protocols, Mobile computing, Mobile ad hoc networks, Mobile agents, Network architectures, Quality of services, Cross-layer design/optimisation, Design and performance evaluation, Traffic control, Wireless systems

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 Chair, Prof. Zhihong Man via email zman@swin.edu.au by 15 December 2011.

Best Paper Award: Selection of the best paper will be made at the Conference based on both the technical content and presentation. The winner will be chosen by the Award Committee led by Dr. Zhengguo Li in consultation with the International Advisory Committee.

Paper Submission: Please submit full papers to the Conference website address <http://www.ieeeicicia.org> by **15 November 2011**. All submitted papers should be in the form of .pdf or .ps file and are to be limited to a maximum length of 6 pages (Letter size, single space, Times Roman of font size 10, two columns format), including figures, tables and references. Please use the template which is available from the website. Upon acceptance, authors will be required to register and present their papers. Papers will be published in the conference proceedings only if at least one of the authors is officially registered. Each registration covers a maximum of two papers.

In addition to the technical sessions, **KEYNOTE ADDRESSES** on the State-of-the-Art in various tracks of Industrial Electronics will be delivered by

- Professor Miroslav Krstic, University of California, San Diego, USA
- Professor Nam Ling, Santa Clara University, USA
- Professor Xinghuo Yu, RMIT University, Australia

Important Dates:

Deadline for Full Paper submission	15 November 2011
Deadline for Invited and Special Sessions	15 December 2011
Notification of Acceptance	31 January 2012
Deadline for Camera Ready Manuscript Submission	15 March 2012
Deadline for Authors' Registration	15 April 2012

