

# CALL FOR PAPERS

## Special Session on Self-organising, robust Automation Systems

to be held in the frame of  
IECON 2013 - The 39<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society  
10<sup>th</sup> - 13<sup>th</sup> of November 2013, Austria Center, Vienna, Austria



### TOPIC OF THE SPECIAL SESSION

Large scale embedded monitoring and control systems are found in many applications such as buildings, manufacturing, energy systems, transportation, security and safety. These systems continuously grow and are constantly integrated into larger systems from cyber physical systems, internet of things to systems of systems. At the same time the requirements for these systems become more dynamic and have to adapt constantly to new situations. This renders the design, commissioning and maintenance of reliable systems challenging due the persisting problems of heterogeneity, interoperability, adaptability, and robustness. This request for self-organising approaches that do not rely on compatible protocols and architectures to work, but consider the reality of heterogeneous, multi-vendor systems. New approaches have to reach beyond the protocol level to the control applications and the integration into large scale systems to make the system adaptive and robust in real environments.

- Engineering self-organising robust systems
- Cross-layer protocols for self-organisation

### SPECIAL SESSION ORGANISATION

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The organizers look forward to welcoming you to Vienna, Austria from 10<sup>th</sup> to 13<sup>th</sup> November 2013.

### Important Dates

Regular Paper submission:	April 01, 2013
Notification of acceptance:	June 15, 2013
Final submission:	August 01, 2013



- Middleware approaches
- Semantic technologies for self-organisation
- Adaptive diagnosis and fault adaptability
- Context-aware computing
- Large scale applications: Smart Buildings, Factory Automation, Pervasive Computing, Ambient Assisted Living, Transportation, Robotics

### **SUBMISSION OF PAPERS**

The working language of the conference is English. Submit the full paper as PDF following the IEEE layout requirements by using the templates given at the conference web page. Accepted and presented papers will be published in an IEEE Proceedings volume and will be sent to IEEE Xplore. In addition, selected authors are encouraged to submit their papers for publication in the IEEE Transactions on Industrial Electronics or in the IEEE Transactions on Industrial Informatics.

### **THE CONFERENCE**

IECON 2013 is the 39th Annual Conference of the IEEE Industrial Electronics Society, focusing on industrial and manufacturing theory and applications of electronics, controls, communications, instrumentation and computational intelligence. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship.

Papers with new research results are encouraged for submission. IECON 2013

will be held concurrently with the 7th IEEE International Conference on E-Learning in Industrial Electronics (ICE-LIE 2013). Participation in any of these events just requires a single conference registration fee. The world's industry, research, and academia are cordially invited to participate in the wealth of presentations, tutorials, special sessions and social activities, and furthermore, enjoy beautiful Vienna.