

CALL FOR PAPERS

Special Session on Building Automation – Handling the Complexity

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



TOPIC OF THE SPECIAL SESSION

Today's building automation systems have reached considerable system complexity: integration of different industries, monitoring, alarming, energy management, flexible operation and many more demand new approaches to handle the integration of all of the above requirements. Methods from the domains of machine learning, inductive statistics, knowledge-based assistance systems and business intelligence can help to solve the problems. The topics in this special session include:

- Advanced control (predictive control, model-predictive control, event-based control, cooperative systems, agent-based optimization)
- Optimized building operation (simulation based optimizations, tools for assessment of optimization measures)
- Data analytics (building performance analysis, forecasting, adaptive alarming)
- User interaction and context awareness (behavior models, ambient assisted living)
- Sensor and actuator networks (wireless networks, wired networks, hybrid)

SPECIAL SESSION ORGANISATION

Jan Haase
haase@ict.tuwien.ac.at

Gerhard Zucker
Gerhard.Zucker@ait.ac.at

Wolfgang Kastner
k@auto.tuwien.ac.at

Yoseba Peña
yoseba.pena@deusto.es

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

Important Dates

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



technologies)

- Low-power solutions (design of ultra-low power wireless sensor networks and embedded systems)
- Instrumentation for testing and analysis (novel sensor and actuator technologies)
- Fault Detection and Diagnosis (monitoring, fault detection, model-based diagnosis)
- Dependability (self-adaptation, fault tolerance, reliability, safety and security)
- Engineering and commissioning (design automation, system modeling, self-organization, deployment optimization)
- Integration aspects (component-based architectures, service-oriented architecture, semantics, information modeling and ontologies, cloud computing, integration into smart grids and the Internet of Things)
- Demonstrations and field experimentation (practice and methodologies)

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.