

**September 6-9, 2016, Berlin**

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- Pavel Vrba, Foxconn, Czech Republic
- Marco Liserre, Uni Kiel, Germany
- Peter Palensky, TU Delft, Netherlands (Track Co-Chair)
- Thomas Strasser, AIT, Austria (Track Co-Chair)

**Call for Papers**

**Track 9. Information and Communication Technology  
 in Energy Systems**

**Track Co-Chairs**

Peter Palensky, TU Delft, Netherlands, palensky@ieee.org

Thomas Strasser, AIT Austrian Institute of Technology, Austria, Thomas.Strasser@ait.ac.at

**Focus of the Track:** The power and energy domain is experiencing a major change in terms of operation and planning. The advancement into a Smart Grid produces new challenges. With the introduction of distributed generation (e.g. photovoltaic, wind) and controllable/flexible loads (e.g. electrical vehicles, storages) new advanced information and communication technology as well as automation and control methods are required in order to cope with these new challenges. This track is therefore focused on the development, adoption and application of information technology for energy and power systems (Smart Grids).

**Topics within the scope of the track**

- Intelligent automation and control architectures (e.g., multi-agent-systems, service-oriented architectures)
- Fault location/isolation/service restoration (e.g., self-healing system)
- Multi-domain modelling and simulation of smart grid systems
- Model/software/hardware-in-the-loop experiments for smart grid applications
- Operation & control of active distribution grids, dispersed generation with strong focus on scalability & replicability
- ICT interoperability and standardization-related topics for smart grids
- Application of smart grid related standards (e.g., CIM, IEC 61850, OPC UA, IEC 61499)
- Recent developments in SCADA and distributed control technology
- Integration of building automation and services into energy systems
- Industrial demand response and flexibility assessment
- Energy-aware operation and control of industrial plants
- IoT applications in energy networks
- Simulation of networked embedded systems used in energy systems
- Distributed coordination applications in energy systems
- Human-machine interfaces used in energy applications

**Aim:** The aim of the conference is to bring together researchers and practitioners from the industry and academia and provide them with a platform to report on recent advances and developments in the newly emerging areas of technology, as well as actual and potential applications to industrial and factory automation.

**Solicited Papers:** Research papers reporting on new developments in technological sciences. Industry and development papers reporting on actual developments of technology, products, systems and solutions. Tutorial and survey papers. Work-in-progress papers. In addition, ETFA 2016 solicits special session proposals to stimulate in-depth discussions in special areas relevant to the conference theme. Please consult the conference web page for more details.

**Conference Format:** The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations; work-in-progress (WIP) sessions; panel discussions on the state-of-the-art and emerging trends, involving leading experts from industry and academia; and public discussion sessions moderated by leading experts in the field of industrial automation systems.

**Submission of Papers:** The working language of the conference is English. Two types of submissions are solicited. Long Papers – limited to 8 double column pages in a font no smaller than 10-points. Work-in-Progress and Industry practice papers – limited to 4 double column pages in a font no smaller than 10-points. Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the Conference web site.

**Best Paper Award:** Best paper awards in Factory Automation and Emerging Technologies will be presented at the conference banquet dinner.

**Further Information:** ETFA2016 Conference Secretariat: Tel.: +49 / 5261 94290-35; Fax.: +49 / 5261 94290-35; Email: etfa2016@iosb.fraunhofer.de

**Paper Acceptance:** Each accepted paper must be presented at the conference by one of the authors. The final manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees, including authors and session chairpersons, must pay the conference registration fee, and their travel expenses.

**No-show Policy:** The ETFA2016 Organizing Committee reserves the right to exclude a paper from distribution after the conference at IEEE Xplore if the paper is not presented at the conference.

**Author's Schedule:**

Deadline for submission of regular and special sessions papers:	March 15, 2016	April 15, 2016
Notification of acceptance of regular and special sessions papers:		May 15, 2016
Deadline for submission of work-in-progress papers and Industry practice:		May 20, 2016
Notification of acceptance of work-in-progress papers and Industry practice:		June 20, 2016
Deadline for submission of final manuscripts – regular and special sessions:		July 1, 2016
Deadline for submission of final manuscripts – work-in-progress papers and Industry practice:		July 1, 2016



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