

September 8-11, 2015, Luxembourg

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- Valeriy Vyatkin, Luleå Univ. of Technology, Sweden
- Anna Magdalena Kosek, DTU, Denmark (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

Anna Magdalena Kosek, DTU Technical Univ. of Denmark, Denmark, amko@elektro.dtu.dk
 Thomas Strasser, AIT Austrian Institute of Technology, Austria, thomas.i.strasser@ieee.org

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)
- Fault location/isolation/service restoration (e.g. self-healing system)
- Power system modelling and optimization
- Advanced information and communication systems
- Modelling and simulation of Smart Grid components and 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)
- SCADA systems of operation of power distribution grids and micro grids
- Recent developments in SCADA and distributed control technology
- Security and privacy in Smart Grids
- Home and Building Automation and Renewable Energy Systems
- New roles, services and business models for distribution systems (incl. regulatory framework and interaction with transmission system operation)

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 2015 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: ETFA2015 Conference Secretariat: Tel.: +352 / 46 66 44-5810; Fax.: +352 / 46 66 44-5200; Email: etfa2015@uni.lu

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 ETFA2015 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:

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| Deadline for submission of regular and special sessions papers: | April 15, 2015 |
| Notification of acceptance of regular and special sessions papers: | May 15, 2015 |
| Deadline for submission of work-in-progress papers and Industry practice: | May 20, 2015 |
| Notification of acceptance of work-in-progress papers and Industry practice: | June 20, 2015 |
| Deadline for submission of final manuscripts – regular and special sessions: | July 1, 2015 |
| Deadline for submission of final manuscripts – work-in-progress papers and Industry practice: | July 1, 2015 |



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