

September 6-9, 2016, Berlin

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- Andreas Willig, University of Canterbury, New Zealand
- Martin Wollschlaeger, TU Dresden, Dresden, Germany

Call for Papers

Track 2. Industrial Communication Systems

Track Co-Chairs

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 Claudio Zunino, IEIT - CNR, Torino, Italy, claudio.zunino@ieit.cnr.it

Focus of the Track: Industrial communication technologies, including modeling, analysis, and synthesis of provably correct systems, as well as characterization of application requirements, implementations, performance evaluation, validation, and case studies. Original contributions in these areas are solicited.

Topics within the scope of the track

- Industrial Ethernet networks
- Industrial wireless networks, Wireless instrumentation and wireless sensor networks
- Fieldbus networks, Factory and process automation networks
- Automotive, train, and avionic networks, home and building automation networks
- Mesh, relay, and multi-hop industrial networks
- Software-defined and cognitive radio networks
- Power-system automation networks, smart grids and power-line communications
- Integration of automation networks
- IP-based and web-based industrial communications, machine-to-machine (M2M) communications
- Event-driven and time-triggered communications
- Security and safety, dependability and fault tolerance in industrial communications
- Middleware for industrial communications and decentralized control
- Industrial Internet of Things (IIoT), Internetworking and interoperability
- Remote configuration and network management
- Real-time communication and precise synchronization
- Quality of Service (QoS) and performance indices, message schedulability analysis
- Cyber-physical and networked control systems
- Wireless coexistence and spectrum-sharing, radio resource management in industrial environments
- Industrial communication case studies

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
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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