

September 6-9, 2016, Berlin

Track Program Committee

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- Kristian Sandström, ABB Corporate Research, Sweden
- Mikael Sjodin, Malardalen Univ., Sweden
- Marisol Garcia Valls, Univ. Carlos III de Madrid, Spain
- Ahlem Mifdaoui, Univ. of Toulouse-ISAIE, France
- Achim Rettberg, Univ. of Oldenburg, Germany



Call for Papers

Track 3. Real Time and Networked Embedded Systems

Track Co-Chairs

Ahlem Mifdaoui, Université de Toulouse/ISAIE, France, ahlem.mifdaoui@isae.fr
 Achim Rettberg, Hella KGaA Hueck & Co., Germany, achim.rettberg@me.com

Focus of the Track: Embedded systems are increasingly used to realize complex functionality, distributed intelligence and adaptive behavior. New functions can be deployed taking advantage of ubiquitous connectivity and networks. The design of these systems must cope with the need to manage functional complexity together with real-time, power and reliability constraints.

Topics within the scope of the track: Contributions for the track on real-time and (networked) embedded systems (RTNES) are sought in, but not limited to, the following areas:

- Theory and technology in RTNES: real-time computing, operating systems and communications; networked embedded systems technology; parallel and distributed embedded systems; multi/many-core embedded systems; timing and schedulability analysis; wireless sensor networks; cyber physical systems.
- Design and methods in RTNES: design and implementation; design methodologies and tools; components and platforms; models of computation and formal methods; hardware/software co-design; verification and validation methods.
- Architectures of RTNES: distributed and system-on-chip architectures including communication and NoC architecture designs and protocols; static and dynamic reconfigurable RT systems; context-aware applications and self-adaptive architectures.
- Algorithms and control in RTNES: energy management; data integration and fusion; communication modes; quality of service control; compensation mechanisms for aging and temperature; fault-tolerant systems.
- Case studies in RTNES: industrial automation, automotive, avionics, communications, e-health and building automation systems

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

<http://www.etfa2016.org>