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Call for Papers
(regular papers)

Track 3. Real Time and Networked Embedded Systems

Track co-Chairs

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Topics within the scope 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. 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; 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.
- Algorithms and control in RTNES: Energy management; Data integration and fusion; Communication modes; Quality of service control.
- Case studies in RTNES: Including industrial automation, automotive, avionics, communications and building automation.

Further Information: ETFA'12 Conference Secretariat: contact@etfa2012.org

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Submission of Papers: Contributions must contain original unpublished work. 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 – 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. Authors of outstanding papers will be invited to submit a revised version of their papers for publication in a special section of a leading journal.

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 ETFA 2012 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 long and special sessions papers: March 25, 2012

Notification of acceptance of long papers: May 30, 2012

Deadline for submission of work-in-progress papers and Industry practice: June 8, 2012

Notification of acceptance of work-in-progress papers and Industry practice: July 1, 2012

Deadline for submission of final manuscripts – long and special sessions: July 8, 2012

Deadline for submission of final manuscripts – work-in-progress papers and Industry practice: July 8, 2012



