Emerging Technologies & Factory Automation

23rd IEEE International Conference
September 4-7, 2018, Torino, Italy

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September 4 - 7, 2018, Torino, Italy

Call for Papers
Track 2 - Industrial Communication Technologies and Systems

Track co-chairs

Luis Lino Ferreira, ISEP, Porto, Portugal, llf@isep.ipp.pt

Johan Akerberg, ABB, Sweden, johan.akerberg@se.abb.com

Focus: The focus of the Track on Industrial Communication Technologies and Systems is on 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: Industrial Ethernet networks. Industrial wireless networks. Fieldbus networks. Factory and process automation networks. Automotive, train, and avionic networks. Home and building automation networks. Power-system automation networks. Smart grids and power-line communications. IP-based and web-based industrial communications. Integration and interoperability of automation networks. Middleware for industrial communications and decentralized control. Software Defined Networks and cognitive radio networks. Wireless instrumentation and wireless sensor networks. Mesh, relay, and multi-hop industrial networks. Wireless coexistence, spectrum-sharing and radio resource management in industrial environments. Information security and functional safety in industrial communications. Industrial Internet of Things (IIoT). Machine-to-machine (M2M) communications. Communication technologies for Industry 4.0. Remote configuration and network management. Real-time communication and precise synchronization. Event-driven and time-triggered communications. Message schedulability analysis. Quality of Service (QoS) and performance indexes.

Aim: The ETFA conference brings together experts from industry and academia to disseminate novel ideas and emerging trends, research results and practical achievements in the area of industrial and factory automation. The ultimate goal is fostering the development and adoption of scientific methods, models, and tools for the efficient design and operation of industrial and factory 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– 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 http://ieee-etfa2018.com/.

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

Further Information: Conference website: http://ieee-etfa2018.com/. ETFA2018 Conference Secretariat: etfa2018@ieiit.cnr.it

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Paper Acceptance: Each accepted paper must be presented at the conference by one of the authors; otherwise the ETFA2018 Organizing Committee reserves the right to exclude a paper from distribution after the conference at IEEE Xplore. The final manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees must pay the conference registration fee and their travel expenses.

Author's Schedule (NEW!!!):

Regular and special sessions papers		Work-in-progress papers	
Submission deadline:	April 27, 2018	Submission deadline:	June 11, 2018
Acceptance notification:	June 1, 2018	Acceptance notification:	June 25, 2018
Deadline for final manuscripts:	July 6, 2018	Deadline for final manuscripts:	July 6, 2018

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