

ETFA 2018
Call for Papers



Emerging Technologies & Factory Automation

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

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Track 8 - Intelligent Sensors, Sensor Networks, and Information Processing

Track co-chairs

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Focus: This track focuses on the use of smart sensor technologies and information processing for monitoring and analysis of industrial systems, factory automation systems, and related applications. Of particular interest are architectural principles, design techniques and implementation models for networked embedded sensor systems, along with methods for their evaluation and/or performance analysis. Also welcomed are experience reports and case studies that make appropriate scientific and technical contributions in this area.

Topics: **Networked Sensing:** Novel components, devices and architectures; Devices and protocols for the Internet of Things (IoT); Energy harvesting in sensor networks; Network and system architectures; Machine-to-Machine (M2M) communication; Security analysis and protocols; Communication protocols for sensor networks; **Information Processing:** Detection, classification, tracking, reasoning and decision making; Machine learning and AI, sensor data processing, data mining; (Distributed) Signal processing and data analytics; Sensor network modeling, simulation, measurements, and analysis; Network health monitoring, QoS management and dependability; Sensor tasking and actuation, wireless control and automation systems; **Applications:** Sensor network applications, deployment and case studies; Smart systems for production, optimization and green energy; home and building automation, smart factories, smart grid, healthcare.

Aim: Provide a broad platform for researchers and practitioners from the industry and academia to report on recent advances and developments in emerging areas of technology, as well as actual and potential applications to 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.

Conference Format: 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; Public discussion sessions moderated by leading experts in the field of industrial automation systems. The working language of the conference is English.

Paper Submission: 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 written in English and must be submitted electronically, in PDF format, according to the instructions contained in the Conference web site, <http://iee-effa2018.com/>

Paper Acceptance: Each accepted paper must be presented in-person at the conference by one of the authors. Hence, the final manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees, including the authors and the session chairpersons, must pay the conference registration fee, and their travel expenses.

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

Further Information: Conference website <http://iee-effa2018.com/> and ETFA2018 Conference Secretariat etfa2018@ieit.cnr.it

No-show Policy: The ETFA2018 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 (NEW!!!):

Regular and special sessions papers

Submission deadline:

April 27, 2018

Acceptance notification:

June 1, 2018

Deadline for final manuscripts:

July 6, 2018

Work-in-progress papers

Submission deadline:

June 11, 2018

Acceptance notification:

June 25, 2018

Deadline for final manuscripts:

July 6, 2018

<http://iee-effa2018.com/>