



CALL FOR PAPERS – Work-in-Progress Session

11th IEEE World conference on Factory Communication Systems

Communication in Automation



May 27-29, 2015
Palma de Mallorca, Spain



Universitat
de les Illes Balears

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IEEE Industrial Electronics Society

Scope:

WFCS is the largest IEEE technical event specially dedicated to industrial communication systems. The aim of this conference is to provide a forum for researchers, practitioners and developers to review current trends in this area and to present and discuss new ideas and new research directions.

Focus on:

Real-time and Dependability in Industrial Communication Systems: message scheduling; task allocation; fault-tolerant communication; performance analysis; safety and security issues; synchronization.

System Integration in Industrial Automation Systems: vertical and life-cycle aspects; web-based setup, maintenance, and configuration; transparency vs. security; data-flow management; internetworking; hybrid wired/wireless industrial infrastructures; M2M communication, Plug-and-Work and self-* mechanisms.

Information and Communication Technology in Automation: system design; component-based systems, web frameworks; cloud computing, Service-oriented Architectures (SoA); mobile computing; modelling and specification techniques; formal methods; Internet of Things (IoT) / Internet of Services (IoS).

Recent advances in research domains with similar technical requirements: networked control systems; wireless sensor networks; smart grid communications and building automation networks; automotive and train-control networks; distributed real-time embedded systems.

Topics:

Fieldbus networks
Industrial Ethernet networks
IP-based networks
Industrial wireless networks
Industrial Applications of Internet of Things (IoT)
Networked embedded systems
Sensor networks
Building automation networks
Automotive and train-control networks
Factory and Process automation networks

Real-time communication and applications
Web-based communication and applications
Distributed application platforms
Safety and security in industrial communications
M2M communication
Fault tolerance in industrial communications
Configuration tools & network management
Internetworking & interoperability
System aspects
Case studies

Submission of Papers: WFCS is seeking submissions of work-in-progress papers with this call. All submitted contributions (in English language) must contain original unpublished work. Papers that have been concurrently submitted to other conferences or journals (double submissions) will be automatically rejected.

Work-in-progress Papers: Up to 4 double-column pages, describing research that has not yet produced the results required for a regular paper, but that due its novelty and potential impact deserves to be shared with the community at an early stage.

Author's Schedule:

Deadline for submission of work-in-progress papers:
Notification of acceptance of work-in-progress papers:
Deadline for submission of final manuscripts (WIP):

March, 6, 2015
April, 3, 2015
April, 10, 2015

Further information: <http://wfcs2015.uib.es>