



CALL FOR PAPERS

9th IEEE International Workshop on Factory Communication Systems

Communication in Automation



May 21-24, 2012
Lemgo/Detmold, Germany



Sponsored by: Institut Industrial IT, Fraunhofer IOSB-INA
IEEE Industrial Electronics Society

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Scope:

The WFCS workshop is the largest IEEE technical event specially dedicated to industrial communication systems. The aim of this workshop 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.

Information and Communication Technology in Automation: system design; component-based systems, web frameworks; mobile computing; modelling and specification techniques; formal methods.

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

Workshop topics:

Fieldbus networks
Industrial Ethernet networks
IP-based networks
Industrial wireless networks
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
Fault-tolerance in industrial communications
Configuration tools & network management
Internetworking & interoperability
System aspects
Case studies

Submission of Papers: The WFCS workshop is seeking two kinds of submissions. All submitted contributions (in English language) must contain original unpublished work.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.

Regular Papers: Up to 10 double-column pages in IEEE format, reporting on novel and significant contributions to the field of industrial communication systems.

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 regular papers: **[Extended]**
Notification of acceptance of regular papers:
Deadline for submission of work-in-progress papers: **[Extended]**
Notification of acceptance of work-in-progress papers:
Deadline for submission of final manuscripts (regular):
Deadline for submission of final manuscripts (WIP):

December, 9, 2011 **January, 6, 2012**
February, 24, 2012
February, 27, 2012 **March, 7, 2012**
April, 8, 2012
March, 16, 2012
April, 15, 2012

Further information: <http://www.init-owl.de/wfcs2012/>