



Call for Papers / Invitation to Special Session SS03

HARMONIZATION OF STANDARDS AS A RESULT OF THE CONVERGENCE OF TECHNOLOGIES IN MODERN TECHNICAL ARTIFACTS.

Special Session Organizers

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Aim: Modern technical artifacts (such as complex consumer goods or mechatronic components and embedded systems used in industrial machines or medical equipments) are complex systems where different technologies are incorporated. They are not only expected to perform specific functionalities but, also, required to interact with the surrounding environment and adapt their behaviors to changing contexts and user attitudes. Therefore, new product design processes require the ability of integrating various technologies. As a result, the involved designers have to deal with several technology standards, which often overlap each other providing inconsistencies or conflicting solutions or even leaving empty space for issues not covered by the uncoordinated standards.

The above specified scenario does not only occur in domains as Manufacturing, Automotive or Logistics but also in Power Production/Distribution, Building/Home Automation (Domotics) and Transportation.

Researchers and designers are invited to present their activities in these areas. Any study related to the harmonization or the convergence of existing standards as well as to the envisaged development of new standards will find its space in this Special Session.

Topics of interest include, but are not limited to, latest development of standards on:

- Model driven and component based control system design;
- Domain specific automation design patterns;
- Smart sensors and actuators interoperability;
- Automation system simulation and validation;
- System virtual commissioning;
- Smart Grid;
- Industrial automation vs. Energy production/distribution automation;
- New energy services, demand/response orchestration/choreography;
- SoA, Web-services, QoS, Security for Smart Communities;

SUBMISSION OF PAPERS

Papers should be submitted electronically. For further details, please refer to the conference web page.

AUTHOR'S SCHEDULE

Deadline for submission of papers: April 8, 2012

Notification of papers acceptance: May 30, 2012

Final manuscripts due: July 8, 2012

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