Call for Papers / Invitation to Special Session SS02

SOFTWARE ENGINEERING METHODS, TOOLS AND PRACTICES FOR AUTOMATION SYSTEMS

Special Session Organizers

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With software in industrial automation systems becoming increasingly complex, it becomes necessary to make use of advanced software engineering tools and techniques to ensure that the software performs as intended. Such software engineering methods, tools and practices are used extensively for software developed using general-purpose programming languages, but have not been universally adopted for software developed using domain-specific languages in industrial systems as yet.

The aim of this session is to provide insight on effectiveness and adoption of software engineering practices in automation and control systems. This session seeks contributions related to the adaption of methods, tools and practices in software engineering for automation systems. Therefore, this special session will focus on (but not be limited to) the following topics in the area of automation system development using domain-specific languages like IEC 61131-3 and IEC 61499:

- Software lifecycle management
- Configuration management, tools and techniques
- Tools and techniques for automated testing
- Program analysis techniques
- Software metrics
- Defect analysis and management etc.

SUBMISSION OF PAPERS
Papers are to be submitted electronically. For further details, please consult the conference web pages.

AUTHOR’S SCHEDULE
Deadline for submission of papers: March 15, 2013
Notification of papers acceptance: May 15, 2013
Final manuscripts due: July 1, 2013

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