

September, 22-26 2009, Palma de Mallorca, Spain

Call for Papers / Invitation to Special Session SS01

POWER & PERFORMANCE EVALUATION OF EMBEDDED SYSTEMS

Special Session co-Chairs

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Sponsored by: Technical University of Catalonia (UPC), University of Balearic Islands (UIB), Spain and IEEE Industrial Electronics Society

Performance and other non-functional properties are crucial for the successful design and operation of embedded systems, which represent the driving force of development in many automation applications today. Their systematic evaluation, however, is not yet part of standard design approaches. Power consumption as an example is gaining increasing attention because of energy-awareness in general and applications of distributed systems such as sensor networks, that have to manage their limited power resources, in industrial automation.

The special session should serve as a forum for the integrated discussion of performance evaluation – in a broad sense – for embedded systems. Topics of interest include:

- Performance, energy consumption, availability and fault tolerance etc. of embedded systems
- Related design issues:
 - o power management, system specification,
 - o hardware and operating system support, scheduling,
 - o distributed and networked embedded systems, code analysis and generation,
 - o benchmarks, application configuration, adaptation and reconfiguration
- Evaluation techniques: measurement, modeling, simulation, analysis, optimization, software tools and methodologies
- Applications of embedded system evaluation and design in all areas of the ETFA conference, including manufacturing, transportation and logistics, fault-tolerant and reliable systems, factory automation, automotive technology, industrial communication, and environmental technology.

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:	May 10, 2009
Notification of papers acceptance:	June 8, 2009
Final manuscripts due:	July 5, 2009

SESSION ORGANIZERS

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