

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

Call for Papers / Invitation to Special Session SS05

DEPENDABILITY OF IN VEHICLE 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

Embedded electronic and software systems have become the major innovation driver in the automotive domain. In a near future, their development will be constrained by two emerging standards:

1. The AUTomotive Open System ARchitecture (AUTOSAR). It provides a reference architecture to ease the development of multi-suppliers component-based systems.
2. The ISO26262 proposal. It provides a classification of safety levels for undesirable events as well as recommendations concerning the design of the embedded systems that could produce these events.

The simultaneous emergence of these standards raises the problem of the robustness of multi-suppliers component-based embedded systems. To cope with this challenge, several questions have to be answered:

- how to improve middleware and basic software components in order to handle run-time errors?
- how to avoid the propagation of run-time errors between components?
- how to optimize the configuration of the execution platform with regards to dependability criterion?

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This session will gather researchers and practitioners from industry and academia to report on current developments and on-going researches in the field of dependable automotive embedded systems.

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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