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# I<sup>2</sup>ESS 2005

INTERNATIONAL EMBEDDED  
SYSTEMS SYMPOSIUM

# INTERNATIONAL EMBEDDED SYSTEMS SYMPOSIUM

## Conference Theme

As almost no other technology, mechatronics is an essential element of many innovations in automotive engineering. New functions and improvements of already existing functions, as well as the compliance with traffic regulations and customer requirements, have only become possible by the increasing use of mechatronic systems, especially in the fields of driving, safety, reliability, and functionality. Along with the functionalities that increase in number and have to cooperate, the complexity of the entire system will increase. Synergy effects resulting from distributed application functionalities via several electronic control devices, exchanging information through the network bring about more complex system architectures with many different sub-networks, operating with different velocities and different protocol implementations. To manage the increasing complexity of these systems a deterministic behaviour of the control units and the communication network must be provided for, in particular when dealing with a distributed functionality or redundant realization. Contributions and participants from industry and academics on the below mentioned topics (not restricted to) are welcome to take active part in this symposium. The main goal of this symposium is to present, to exchange, and to discuss the actual status of the work, actual research results, and tendencies in the scope of embedded system applied to transport applications.

## Topics

Topics include, but are not restricted to the following:

- Specification and modelling of complex embedded systems
- Design methodology for automotive embedded systems
- Simulation and verification (SIL and HIL) of embedded systems
- New technologies for automotive applications
- HW/SW co-design for automotive applications
- Re-configurable architectures and applications on the automotive field
- Software synthesis for embedded systems
- Distributed and Modular controller architectures
- Network and communication systems
- Dependability and fault tolerance of distributed embedded systems
- Power management for embedded systems
- Case studies of embedded systems

## Important Dates

**March 1, 2005** Submissions due

**April 20, 2005** Notification of acceptance

**May 15, 2005** Final papers

## Location

The conference will be held in Manaus, Brazil  
Hotel Aria Towers  
[www.ariautowers.com](http://www.ariautowers.com).

## Submissions

A submission should consist of:

- 1.** A cover page including:  
most appropriate topic,  
title of the paper,  
names and affiliations of authors,  
contact author's name, address, phone number, fax
- 2.** The paper (up to 10 pages in 11 point or larger) or an abstract (3 - 5 pages), which should provide a summary of the main results and their details to allow the program committee to assess their merits and significance, including references and comparisons.  
The contribution must be unpublished and not submitted for publication elsewhere, including journals and the proceedings of other symposia or workshops.

The Proceedings will be published by Springer, the official publisher of IFIP. Full details on how to format your paper can be found at at the IESS 2005 web site [www.iess.org](http://www.iess.org) or the web site of the conference publisher, Springer: [www.springer.com/ifip](http://www.springer.com/ifip) (please refer to the section on the Production of camera ready manuscript).

You can submit postscript, pdf, or MS WORD files

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