Call for Papers

Embedded Software Track at DATE 2010

Dresden, Germany
March 8-12, 2010

The **Design, Automation and Test in Europe conference and exhibition** is the main European event bringing together design automation researchers, users and vendors, as well as specialists in the design, test, and manufacturing of electronic systems and circuits. It puts strong emphasis on embedded systems, including embedded software which has become a main track of DATE. You are invited to submit your research contributions and advanced (industrial) applications to this **Embedded Software Track**.

The DATE **conference** is a five-day event consisting of plenary keynotes, regular papers, interactive presentations, panels and hot-topic sessions, tutorials, master courses and workshops. The DATE conference and the exhibition, together with the many user group meetings, fringe meetings, university booth and social events offer a wide variety of opportunities to meet and to exchange information.

EMBEDDED SOFTWARE TOPIC AREAS

E1 Real-time, Networked, and Dependable Systems
Chairs: Petru Eles, Linkoping University, Sweden; Luís Almeida, Universidade do Porto, Portugal

Real-time programming languages and software; formal models for real-time systems; software performance analysis; worst case execution time analysis; scheduling and software estimation; real-time system optimization; verification; tools and design methods; adaptive real-time systems; dependable systems; software for safety critical systems; software for sensor networks and networked applications; network control and QoS for embedded applications.

E2 Compilers and Code Generation for Embedded Systems
Chairs: Shuvra Bhattacharyya, University of Maryland, USA; Rainer Leupers, RWTH Aachen,, Germany

Software-centric system design exploration; software synthesis; compilers; code generation (e.g. C from matlab); dynamic compilation for embedded systems; software tool chain; generation for design space exploration (compilers, simulators, synthesis tools); retargetable compilers for MPSOC and reconfigurable platforms; compilers for multi-core systems.

E3 Model-based Design for Embedded Systems
Chairs: Albert Benveniste, IRISA, France; Christoph Kirsch, University of Salzburg, Austria

Model-based foundations, methods, and tools for principled embedded/control system/software design; model-based embedded/control system/software testing, verification, validation, integration, deployment; model-based system and software architectures and infrastructure for principled embedded/control software deployment.

E4 Embedded Software Architectures and Principles
Chairs: Ahmed Jerraya, Leti, France; Andre Hergenhan, Opensynergy, Germany

Software for MPSoC and multi-core systems; virtualization for embedded systems, including safety and security aspects; resources constrained middleware and Run-Time Environment (RTE) architectures, e.g., AUTOSAR; software support for reconfigurable components and accelerators.

E5 Embedded Software Applications - Architectures, Tools, and Methodologies
Chairs: Wolfgang Ecker, Infineon Technologies, Germany; Werner Damm, OFFIS, Germany

Real-time and dependable software applications; embedded run-time environments – practice and applications; embedded software verification and certification; design processes and experience in dependable software design; model driven design in industrial practice; embedded software architectures and applications in aerospace, automotive, industrial, medical industries; embedded software in wireless and consumer electronics applications; sensor network applications.

SUBMISSION INSTRUCTIONS

All manuscripts must be submitted electronically before **September 6th, 2009**, following the instructions on the conference Web page:

www.date-conference.com

The accepted file format is PDF Manuscripts received in hard-copy form will not be processed.

Papers can be submitted for either standard oral presentation or for interactive presentation. Standard oral presentations require novel and complete research work supported by experimental results, and are held in front of a full audience. Besides these, DATE will again include interactive presentations of novel ideas that may require additional research or lack experimental data. Interactive presentations are given on a laptop in a face-to-face discussion area.

Submissions should not exceed 6 pages in length for oral-presentation and 4 pages in length for interactive-presentation papers, and should be formatted as close as possible to the final format: A4 or letter sheets, double column, single spaced, Times or equivalent font of minimum 10pt (templates are available on the DATE Web site for your convenience). To permit blind review, submissions should not include the author names. Any submission not in line with the above rules will be discarded.

All papers will be evaluated with regard to their suitability for the conference, originality and technical soundness. The Programme Committee reserves the right to accept interesting contributions that do not meet the criteria for standard oral presentations, as interactive presentations.

INFORMATION

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