ECRTS 2014

9-11 July
Madrid, Spain

26th EUROMICRO CONFERENCE ON REAL-TIME SYSTEMS
Madrid, Spain, 9-11th July 2014
Organised by the Euromicro Technical Committee on Real-Time Systems
Conference web site: ecrts14.ecrts.org

CALL FOR PAPERS

PROGRAM CHAIR

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IMPORTANT DATES

Submission deadline:
2nd February 2014
(firm deadline)
Notification of Acceptance:
27th March 2014
Workshops:
8th July 2014
Conference:
9th-11th July 2014

THEME AND TOPICS OF INTEREST

The twenty-sixth EUROMICRO Conference on Real-Time Systems (ECRTS'14) is a forum aimed at covering state-of-the-art research and development in real-time computing. Papers on all aspects of **real-time systems** are welcome. These include, but are not limited to:

APPLICATIONS: consumer and multimedia; process and industrial control; smart energy, smart buildings; health; avionics, aerospace; automotive; telecommunications; cyber-physical systems.

INFRASTRUCTURE AND HARDWARE: communication networks; embedded devices; hardware/software co-design; power-aware and other resource-constrained techniques; multicore and manycore architectures for real-time and safety; time engines and time synchronization; wireless sensor networks.

SOFTWARE TECHNOLOGIES: middleware, operating systems, run-time environments; virtualization and isolation; software architectures; programming languages and compiler support; component-based approaches; distribution technologies.

SYSTEM DESIGN AND ANALYSIS: modelling and formal methods for design and analysis; probabilistic analysis; quality of service support; safety, reliability, security and survivability; mixed critical systems; scheduling and schedulability analysis; worst-case execution time analysis; validation and verification techniques.

SUBMISSION OF PAPERS

Full papers must be submitted electronically through our web form in a pdf format. The material must be unpublished and not under submission elsewhere. Submissions must be in the same format as in the final published proceedings (10 pages maximum, 2 columns, 10 pt). The paper must be self-contained, but an appendix with supplementary material of up to 2 pages is permitted. Papers exceeding the page limit will not be reviewed. Note that the submission deadline is a firm deadline and will not be extended. A selection of the best papers will receive **outstanding paper awards**, and will be highlighted as such in the conference proceedings. These papers will form the shortlist for a **best paper award**, which will be presented at the conference. At ECRTS'14, we aim to be more inclusive and thus accept a larger number of high quality papers than in recent years.

CONFERENCE HIGHLIGHTS

Following a successful tradition at ECRTS, there will be a special **Work in Progress (WiP) session**. This session is intended for presentation of recent and on-going work. There will also be a continuation of a number of successful **Satellite Workshops** including: **OSPERT** – Operating Systems Platforms for Embedded Real-Time applications, **WCET** – Worst-Case Execution Time analysis, **RTN** – Real-Time Networks, **WATERS** – Workshop on Analysis Tools and methodologies for Embedded and Real-time Systems, and **RTSOPS** – Real-Time Scheduling Open Problems Seminar. A separate call for papers will be issued later for both the WiP session and satellite workshops. Please visit the website at ecrts14.ecrts.org for details.

PROGRAM COMMITTEE

Karl-Erik Årzén, Lund University, Sweden; David Atienza, EPFL, Switzerland; Sanjoy Baruah, University of North Carolina at Chapel Hill; Marko Bertogna, University of Modena, Italy; Konstantinos Bletsas, CISTER/INESC-TEC, ISEP, Portugal; Björn Brandenburg, Max Planck Institute for Software Systems; Scott Brandt, UC Santa Cruz, USA; Giorgio Buttazzo, Scuola Superiore S. Anna, Italy; Sdrjan Capcun, ETH Zurich, Switzerland; Francisco J. Cazorla, Barcelona Supercomputing Center and IIIA-CSIC; Robert Davis, University of York, UK; Jean-Dominique Decotignie EPFL/CSEM, Switzerland; Marco Di Natale, Scuola Superiore S. Anna, Italy; Arvind Easwaran, NTU, Singapore; Johan Eker, Ericsson, Sweden; Nathan Fisher, Wayne State University, USA; Gerhard Fohler; TU Kaiserslautern, Germany; Christian Fraboul, Université de Toulouse, France; Kees Goossens, TU Eindhoven, The Netherlands; Arne Hamann, Bosch CR, Germany; Gernot Heiser, University of New South Wales, Australia; Andreas Herkersdorf; TU München, Germany; Axel Jantsch, KTH Stockholm, Sweden; George Lima, Federal University of Bahia, Brazil; Claire Maiza, Grenoble INP/Verimag, France; Julio L. Medina, Universidad de Cantabria, Spain; Frank Mueller, North Carolina State Univ., USA; Michael Paulitsch EADS, Germany; Sophie Quinton, INRIA, France; Christine Rochange, IRIT, University of Toulouse, France; Insik Shin, KAIST, Korea; Gerard Smit, Univ. Twente, The Netherlands; Lothar Thiele, ETH Zurich, Switzerland.

LOCAL INFORMATION

Madrid, the thriving capital city of Spain, is well known for its openness and modernity. It is also a prominent cultural city, with some of the top class art museums, monuments and theatres, as well as the administrative and financial centre of the country. A large number of industrial companies in the areas of telecommunications, computers and information technologies, aerospace, and automobile, among others, are based in the Madrid region.