



28th EUROMICRO CONFERENCE ON REAL-TIME SYSTEMS

Toulouse, France, 5-8th July 2016

Organized by the Euromicro Technical Committee on Real-Time Systems
Conference web site: ecrts16.ecrts.org

CALL FOR PAPERS

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IMPORTANT DATES

Submission deadline:
25th February 2016
(*firm deadline*)

Workshops:
5th July 2016
Conference:
6-8th July 2016

THEME AND TOPICS OF INTEREST

ECRTS is the premier European venue for presenting research into the broad area of real-time and embedded systems. Along with RTSS and RTAS, ECRTS ranks as one of the top three international conferences on real-time systems. Papers on all aspects of **real-time systems** are welcome. These include, but are not limited to:

APPLICATIONS: consumer electronics & multimedia; process & industrial control; smart infrastructure; healthcare; aerospace; automotive; telecommunications; cyber-physical systems.

INFRASTRUCTURE AND HARDWARE: communication networks; embedded devices; hardware/software co-design; power-aware & other resource-constrained techniques; multi/many-core architectures for real-time & safety; time synchronization; wireless sensor networks.

SOFTWARE TECHNOLOGIES: middleware; operating systems; runtime environments; virtualization and temporal isolation; software architecture; programming language & compiler support; component-based approaches.

SYSTEM DESIGN AND ANALYSIS: modelling and formal methods; probabilistic analysis; quality of service support; reliability, security and survivability; mixed-criticality 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 The material must be unpublished and not under submission elsewhere.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 the final published proceedings (10 pt font, 2 columns, maximum of 10 pages). The paper must be self-contained and the body of the paper is limited to the first ten pages; however, authors are permitted a maximum of two additional pages (at no extra charge) which may contain only the bibliography. *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'16, 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 number of successful Satellite Workshops including: **OSPert** Operating Systems Platforms for Embedded Real-Time applications, **WCET** Worst-Case Execution Time analysis, **WATERS** Workshop on Analysis Tools and methodologies for Embedded and Real-time Systems, and **RTSOPS** Real-Time Scheduling Open Problems Seminar. A special session will provide a platform for presenting and revisiting **Industrial Challenges, issuing Call for Actions**, and presentation of **Work in Progress**. Separate Calls for Contributions will be issued later for these. Additionally, ECRTS will hold a welcome reception for first-time attendees to the conference. Please visit the website at ecrts16.ecrts.org for details.

PROGRAM COMMITTEE: Tarek Abdelzaher, University of Illinois at Urbana-Champaign (USA); Benny Åkesson, CISTER/INESC-TEC, ISEP (Portugal); Sebastian Altmeyer, University of Luxembourg (Luxembourg); James H. Anderson, University of North Carolina (USA); Sanjoy Baruah, University of North Carolina (USA); Marko Bertogna, University of Modena (Italy); Konstantinos Bletsas, CISTER/INESC-TEC, ISEP (Portugal); Vincenzo Bonifaci, IASI-CNR (Italy); Tam Chantem, Utah State University (USA); Robert I. Davis, University of York (UK) & INRIA-Paris (France); Jean-Dominique Decontignie, EPFL/CSEM (Switzerland); Marco Di Natale, Scuola Superiore S. Anna (Italy); Rolf Ernst, TU Braunschweig (Germany); Gerhard Fohler, TU Kaiserslautern (Germany); Sathish Gopalakrishnan, The University of British Columbia (Canada); Nan Guan, Hong Kong Polytechnic University (HK SAR, China); Song Han, University of Connecticut (USA); Arne Hamann, Robert Bosch GmbH (Germany); Leandro Soares Indrusiak, University of York (UK); Jinkyu Lee, Sungkyunkwan University, (Korea); George Lima, Federal University of Bahia (Brazil); Cong Liu, University of Texas - Dallas (USA); Martina Maggio, Lund University (Sweden); Julio Luis Medina, University of Cantabria (Spain); Claire Pagetti, ONERA (France); Rodolfo Pellizzoni, University of Waterloo (Canada); Linh Thi Xuan Phan, University of Pennsylvania (USA); Isabelle Puaut, University of Rennes 1 / IRISA (France); Peter Puschner, Vienna University of Technology (Austria); Sophie Quinton, INRIA-Grenoble Rhône-Alpes (France); Christine Rochange, IRIT, University of Toulouse (France); Wilfried Stienen, TTTech (Austria); Lothar Thiele, ETH Zurich (Switzerland); Marcus Völz, University of Luxembourg (Luxembourg).

LOCAL INFORMATION: Toulouse is the 4th city of France with a dynamical economic environment including prominent companies such as Airbus. Toulouse is ideally located in Southern France between the Mediterranean sea and the Atlantic ocean. A city with an exceptional heritage, such as private mansions, religious buildings with brick and stone decorations, museums based in remarkable monuments. Toulouse is an active, bustling city where cultural life and economic activities go hand in hand.