Message from the ECRTS 2010 Program Chair

On behalf of the Euromicro Technical Committee on Real-Time Systems, it is my pleasure to welcome you to the 22nd Euromicro Conference on Real-Time Systems (ECRTS 2010), held in Brussels, Belgium, 6–9 July 2010.

ECRTS is one of the top conferences in the world focusing on real-time systems and is the major European forum for real-time systems research. ECRTS covers a breadth of topics, ranging from system design and analysis issues, to hardware and software infrastructure, to application studies.

This volume contains the 27 papers accepted for presentation at this year’s conference. These papers were selected from 112 submissions. Each submitted paper received at least three reviews. The reviewing process involved 36 program committee members, who were assisted by over 100 external reviewers. The submitted papers were discussed at a meeting of the program committee held on March 20, 2010, in London, UK.

The technical program is structured into eight sessions, plus a Work-in-Progress (WiP) session. WiP submissions were evaluated by a separate program committee chaired by Robert I. Davis of the University of York, UK. Additionally, this year’s program includes three keynote talks:

“The REALTIME PREEMPTION Patch: Pragmatic Ignorance or a Chance to Collaborate?”
Thomas Gleixner, Real-Time Linux Kernel Maintainer

“Hardware Modeling: A Critical Assessment with Case Studies”
Norbert Wehn, Technische Universität Kaiserslautern

“Why Real-Time Scheduling Theory Still Matters”
Sanjoy Baruah, University of North Carolina at Chapel Hill

As in previous years, the day before the beginning of the main conference is dedicated to satellite workshops that allow researchers to gather in smaller, more focused groups to discuss novel ideas and research directions in their respective fields. Five workshops are being held this year, two of which are new:

Tenth International Workshop on Worst-Case Execution Time Analysis (WCET)
Chair: Björn Lisper, MDH, Sweden

Ninth International Workshop on Real-Time Networks (RTN)
Chair: Leandro Buss Becker, Federal University of Santa Catarina (UFSC), Brasil

Sixth International Workshop on Operating Systems Platforms for Embedded Real-Time Applications (OSPERT)
Chairs: Peter Zijlstra, Red Hat, and Stefan M. Petters, Polytechnic Institute of Porto, Portugal

First International Workshop on Analysis Tools and Methodologies for Embedded and Real-Time Systems (WATERS)
Chairs: Giuseppe Lipari and Tommaso Cucinotta, Scuola Superiore Sant’Anna, Pisa, Italy
First International Real-Time Scheduling Open Problems Seminar (RTSOPS)

Chairs: Nathan Fisher, Wayne State University, USA, and Robert I. Davis, University of York, UK.

ECRTS 2010 was made possible by the hard work of a number of people, to whom I am very grateful. They include the keynote speakers, WiP chair, and workshop organizers noted above; Alice Turner, who helped in preparing for the program committee meeting; Thomas Baldwin and Randall Bilof of the IEEE Computer Society Conference Publishing Services, who helped in preparing these proceedings; Brigitte Klöckner of Euromicro, who provided administrative support; all session chairs; all external reviewers who assisted in the review process; and all conference and workshop participants. Special thanks go to the Euromicro Real-Time Technical Committee Chair, Gerhard Fohler, Technische Universität Kaiserslautern, Germany, for the countless hours he spends every year in helping to organize ECRTS.

This conference could not have taken place without the efforts of our General Co-Chairs, Joël Goossens and Vandy Berten, Université Libre de Bruxelles (ULB-FNRS), Belgium. They deserve special recognition for their tireless organizing efforts and for the wonderful social events they have arranged.

Finally, I would like to thank all authors who submitted their work (whether it was accepted or not)—without them, this symposium (obviously) would not have been possible.

I wish you a very interesting and exciting conference in the wonderful city of Brussels, and I look forward to seeing you again at ECRTS 2011.

James H. Anderson
University of North Carolina at Chapel Hill, USA
ECRTS 2010 Program Chair