Message from the Chairs

RTSS 2011

The IEEE Real-Time Systems Symposium (RTSS) is the premier academic conference in the area of real-time systems. Reflecting our tradition of strong international interest and participation, RTSS 2011 takes place in Vienna, Austria. In recognition of the importance of these subjects within the field of real-time systems, RTSS 2011 includes tracks in Cyber-Physical Systems, Design and Verification of Embedded Real-Time Systems, and Wireless Sensor Networks, in addition to the Main track. This 32nd edition of RTSS contains 33 peer-reviewed papers accepted for presentation from across these four tracks.

RTSS 2011 received 158 submissions and after an initial screening, 149 were subject to peer reviewing. Separate program subcommittees were formed for each of the tracks to ensure all papers were reviewed by at least three subject matter experts. In total, 589 reviews were written for the 149 submissions and 33 papers were accepted. This yields an average of 3.95 reviews per paper and an acceptance rate of approximately 21%. Final selections were made by a joint meeting of all four program subcommittees.

To highlight the papers accepted from the special tracks, separate sessions have been organized, with the track name in the session title. In addition to full-length paper sessions, a Work-In-Progress (WIP) session for short papers was organized. WIP submissions were evaluated by a separate committee; accepted papers appear at the conference, but are not included in these published proceedings. The RTSS 2011 program also includes a keynote presentation by Bert Boeddeker from DENSO Automotive Deutschland GmbH, and Rafael Zalman from Infineon Technologies AG, Germany, a presentation by Ted Baker, winner of last year’s TCRTS award for outstanding technical achievement and leadership, a panel including representatives from industry, academia and research funding bodies, four workshops, a demo session, and a banquet where awards for best paper and best student paper, as well as this year’s TCRTS award for outstanding technical achievement and leadership will be presented.

RTSS 2011 was made possible by the hard work of many people. We are especially grateful for the contributions of the following people: Karl-Erik Arzen, Cyber-Physical Systems Track Chair; Xue Liu, Wireless Sensor Networks Track Chair; Petru Eles, Design and Verification of Embedded Real-Time Systems Track Chair; Christopher Gill, Finance Chair; Giorgio Buttazzo, Ex-Officio as Chair of the Executive Board of the IEEE Technical Committee on Real-Time Systems; Peter Puschner, Local Arrangements Chair; Nathan Fisher, WIP Chair; Rolf Ernst, Industry Chair; Enrico Bini, Workshop Chair; Ying Lu and Thomas Nolte, Publicity Chairs; Robert Davis and Linh Thi Xuan Phan, Organizers of the Workshop on Compositional Theory and Technology for Real-Time Embedded Systems; Rahul Mangharam and Peter Feiler, Organizers of the Workshop on Analytic Virtual Integration of Cyber-Physical Systems; Marc Boyer, Christian Fraboul, and Giovanni Stea, Organizers of the Workshop on Worst-Case Traversal Time; Samarjit Chakraborty, Marco Di Natale, and Rolf Ernst, Organizers of the Workshop on Synthesis and Optimization Methods for Real-Time Embedded Systems; Stefan Petters, Organizer of the RTSS@Work Demo Session; the members of the Conference and Workshop Program Committees; the Session Chairs; Linda Buss for her extraordinary efforts in handling registrations and keeping us on task; and Linda Preston for her assistance with local arrangements and other organizational matters.

We are very pleased with the quality, depth, and breadth of this year’s technical program. We hope you enjoy RTSS 2011!

Scott Brandt
General Chair, RTSS 2011

Luis Almeida
Program Chair, RTSS 2011