Foreword

It is indeed a great honor and privilege for us to present the program of the EMSOFT 2006 conference. The program covers a wide spectrum of issues related to embedded systems software, including modeling and validation of embedded software, component/model-based software design, operating systems and middleware for embedded systems, QoS management and performance analysis, hardware-dependent software and interfaces, networked embedded systems and security, low-power embedded systems, scheduling and timing analysis, and real-time embedded systems.

Interest in the conference has been confirmed by the submissions of papers from all over the world. A total of 94 submissions were received, of which 31 papers were accepted for presentation at the conference. The papers were selected after a rigorous review process based on their originality, technical quality, and relevance to the conference. Each submitted paper was reviewed by at least three members of the program committee. The expert opinions of many external reviewers were invaluable, for which we express our sincere gratitude. The program also includes a special session organized by Frank Bellosa and Sam H. Noh on software for portable storage that is becoming increasingly important in mobile embedded applications.

This year's EMSOFT is a continuation of the new tradition in embedded computing, Embedded Systems Week (ESWEEK). EMSOFT is co-locating with both CODES+ISSS and CASES, two major embedded systems conference. We plan to continue Embedded Systems Week as a yearly event and further extend its scope.

This year's keynote for EMSOFT is titled "Embedded System Development for Automotive Applications: Trends and Challenges" and is given by Werner Damm from OFFIS. EMSOFT will host four workshops related to various aspects of embedded systems software and also hold a panel on embedded software education organized by Jeff Jackson and John Zao.

We would like to conclude by thanking all the people who helped us with various aspects of our duties.

First and foremost, we would like to thank the authors, accepted or not, for contributing their finest work. We also owe a large debt of gratitude to the Program Committee members, who did an outstanding job of soliciting reviews, as well as reviewing papers.

We would like to thank our colleagues on the conference committee for their help: Jens Palsberg for handling finances; Stephen Edwards for publicity; Luca Carloni and Jaejin Lee for their work as the industry chair and the workshop chair, respectively. Reinaldo Bergamaschi on ESWEEK organizing committee always broke the ice when needed and gave valuable advice and support at crucial moments.

We also would like to thank Frank Bellosa, Jeff Jackson, Sam H. Noh, Dimitrios Serpanos, Joseph Sifakis, and Lothar Thiele for organizing the four excellent workshops.

The Advisory Committee and the Executive Committee provided excellent advice when needed, and Joseph Sifakis and   Graham Hellestrand served as efficient interface to ACM and IEEE as a liaison. We received able and professional assistance from Lisa Tolles at Sheridan Printing on the proceedings production.

We also would like to thank our students, especially Leonid Mokrushin and Jin-yong Choi, who helped make it all happen and still were willing to forgo an opportunity to submit a paper so that we could serve as program chair.

Finally, big thanks to Ismet Bayraktaroglu who served as webmaster for online submission system. Without his timely support, it would have been impossible to handle hundreds of papers and reviews. Enjoy the program!

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