Foreword

It is a great honor and privilege for us to present the program of the EMSOFT 2007 conference. The program covers a wide spectrum of issues related to embedded systems software, including modeling, implementation, optimization, and validation of embedded software, component/model-based software design, operating systems, file system support, and middleware for embedded systems, performance analysis and scheduling, hardware-dependent software and interfaces, networked embedded systems and security, energy-aware 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 131 submissions were received, of which 29 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.

EMSOFT 2007 is again co-locating with CODES+ISSS and CASES, two major embedded systems conferences, in the Embedded Systems Week (ESWEEK). We plan to continue Embedded Systems Week as a yearly event and further extend its scope.

This year's keynote for EMSOFT is titled "User-Centered Approach for Semi-Automatic, Assistive Devices and Systems" and is given by one of the most renowned researchers of our area, Jane Liu of the Academia Sinica, Taiwan. EMSOFT will host three workshops and two tutorials related to various aspects of embedded systems software and also hold a panel on Grand Challenges in Embedded Software.

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 reviewing papers and soliciting reviews.

We would like to thank our colleagues on the ESWEEK organizing committee for their help: John Darringer for handling finances; Werner Damm, Peter Grun, Yukihiro Nakamura, and Wolfgang Rosenstiel as industry liasons; Luigi Carro, Cathy Gebotys, Jörg Henkel, and Hiroyuki Tomiyama for handling publicity; Paul Pop as web chair; Donatella Sciuto as publication chair; Adam Donlin as panel chair; Miguel Miranda Corbalan as workshop chair; and Frank Vahid as tutorial chair. Reinaldo Bergamaschi always gave valuable advice and support at crucial moments. We also would like to thank Werner Damm, Tom Henzinger, Jeff Jackson, Sri Parameswaran, Martin Törngren, and Tilman Wolf for organizing the three workshops, and Patrick Cousot and Lother Thiele for giving the two tutorials.

The Advisory Committee and the Executive Committee provided excellent advice when needed. We received able and professional assistance from Lisa Tolles at Sheridan Printing on the proceedings production.

Finally, we thank Petra Kirchweger and Adriana Pratter for their outstanding work in countless organizational matters and Silviu Craciunas for the proceeding's fine cover art. Big thanks go to Philipp Lucas who ran the online submission system and offered great overall support for the PC work. Without his timely support, it would have been impossible to handle all the papers and reviews.

Enjoy the program!

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