Preface

The purpose of the EMSOFT Workshop, inaugurated last year at Lake Tahoe, is to bring together researchers and practitioners interested in the foundations and methods of embedded software design with the goal of improving substantially the state of the art and stimulating the debate between researchers and designers. The scope of the EMSOFT Workshop spans all aspects of embedded software, including operating systems and middleware, programming languages and compilers, modeling and validation, software engineering and programming methodologies, scheduling and execution-time analysis, formal methods, communication protocols and fault tolerance.

While the first Workshop included only invited papers because of the need to establish a common framework and a basis for the scientific contributions, for this second EMSOFT, we attempted to strike a balance between invited and selected contributions. The program included 17 selected and 13 invited contributions. The invited speakers were: Giorgio Buttazzo (University of Pavia), Paolo Faraboschi (Hewlett-Packard Laboratories), Nicolas Halbwachs (Verimag), David Harel (Weizmann Institute), Christoph Kirsch (University of California at Berkeley), Luciano Lavagno (Politecnico di Torino and Cadence Research Labs), Nancy Leveson (MIT), Sharad Malik (Princeton), Al Mok (University of Texas at Austin), Amir Pnueli (Weizmann Institute), Lui Sha (University of Illinois at Urbana-Champaign), Douglas Schmidt (University of California at Irvine), and Bran Selic (Rational).

The program covers a wide variety of topics including requirements description and modeling, validation and analysis, synchronous languages, scheduling, real-time architectures and middleware, compilation and implementation, computerized control, and dependability. EMSOFT was colocated with CASES 2002 (International Conference on Compilers, Architectures and Synthesis for Embedded Systems), and to enhance interaction between the respective communities CASES and EMSOFT organized two joint invited sessions. The CASES invited speakers at the joint sessions were: John Rayfield (ARM Ltd.), Giovanni De Micheli (Stanford University), and Jens Palsberg (Purdue University).

The members of the EMSOFT Steering Committee were: Gerard Berry (Esterel Technologies), Tom Henzinger (Stanford University), Hermann Kopetz (TU Vienna), Edward Lee (UC Berkeley), Ragunathan Rajkumar (Carnegie Mellon University), Alberto Sangiovanni-Vincentelli (UC Berkeley), Douglas Schmidt (Washington University), Joseph Sifakis (Verimag), and John Stankovic (University of Virginia).

The EMSOFT 2002 Program Committee this year was: Rajeev Alur (University of Pennsylvania), Gerard Berry (Esterel Technologies), Manfred Broy (Technical University of Munich), Tom Henzinger (University of California at Berkeley),

Kevin Jeffay (University of North Carolina), Hermann Kopetz (Technical University of Vienna), Edward Lee (University of California at Berkeley), Sang Lyul Min (Seoul National University), Martin Rinard (MIT), John Rushby (SRI), Alberto Sangiovanni-Vincentelli (University of California at Berkeley), Shankar Sastry (University of California at Berkeley), Joseph Sifakis (Verimag), John Stankovic (University of Virginia), Lothar Thiele (ETH), Reinhard Wilhelm (Universität des Saarlandes), and Janos Sztipanovits (Vanderbilt University).

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