

Preface

This volume contains the proceedings of the 12th International Conference on Computer Aided Verification (CAV 2000) held in Chicago, Illinois, USA during 15-19 July 2000.

The CAV conferences are devoted to the advancement of the theory and practice of formal methods for hardware and software verification. The conference covers the spectrum from theoretical foundations to concrete applications, with an emphasis on verification algorithms, methods, and tools together with techniques for their implementation. The conference has traditionally drawn contributions from both researchers and practitioners in academia and industry. This year 91 regular research papers were submitted out of which 35 were accepted, while 14 brief tool papers were submitted, out of which 9 were accepted for presentation. CAV included two invited talks and a panel discussion. CAV also included a tutorial day with two invited tutorials.

Many industrial companies have shown a serious interest in CAV, ranging from using the presented technologies in their business to developing and marketing their own formal verification tools. We are very proud of the support we receive from industry. CAV 2000 was sponsored by a number of generous and forward-looking companies and organizations including: Cadence Design Systems, IBM Research, Intel, Lucent Technologies, Mentor Graphics, the Minerva Center for Verification of Reactive Systems, Siemens, and Synopsys.

The CAV conference was founded by its Steering Committee: Edmund Clarke (CMU), Bob Kurshan (Bell Labs), Amir Pnueli (Weizmann), and Joseph Sifakis (Verimag).

The conference program for this year's CAV 2000 was selected by the program committee: Parosh Abdulla (Uppsala), Rajeev Alur (U. Penn and Bell Labs), Henrik Reif Andersen (ITU Copenhagen), Ed Brinksma (Twente), Randy Bryant (CMU), Werner Damm (Oldenburg), David Dill (Stanford), E. Allen Emerson, co-chair (U. Texas-Austin), Steven German (IBM), Rob Gerth (Intel), Patrice Godefroid (Bell Labs), Ganesh Gopalakrishnan (U. Utah), Mike Gordon (Cambridge), Nicolas Halbwachs (Verimag), Warren Hunt (IBM), Bengt Jonsson (Uppsala), Kim Larsen (Aalborg), Ken McMillan (Cadence), John Mitchell (Stanford), Doron Peled (Bell Labs), Carl Pixley (Motorola), Amir Pnueli (Weizmann), Bill Roscoe (Oxford), Joseph Sifakis (Verimag), A. Prasad Sistla, co-chair (U. Illinois-Chicago), Fabio Somenzi (U. Colorado), and Pierre Wolper (Liege).

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