

Computer Aided Verification

16th International Conference, CAV 2004, Boston, MA, USA, July 13-17, 2004, Proceedings

This volume contains the proceedings of the conference on Computer Aided Verification, CAV 2004, held in Boston, Massachusetts, USA, July 13-17, 2004. CAV 2004 was the 16th in a series of conferences dedicated to the advancement of the theory and practice of computer-assisted formal analysis methods for software and hardware systems. The conference covers the spectrum from theoretical results to concrete applications, with an emphasis on practical verification tools and the algorithms and techniques that are needed for their implementation. The conference has traditionally drawn participation from researchers as well as practitioners in both academia and industry. CAV 2004 was colocated with the ACM International Symposium on Software Testing and Analysis (ISSTA 2004), and was partially sponsored by the ACM SIGSOFT. The collocation reflects the increasing synergy between research on verification and testing, and emerging applications of formal verification to software analysis. Joint CAV-ISSTA events included a distinguished plenary lecture by David Harel and a special session exploring various approaches to the specification and verification of concurrent software organized by Shaz Qadeer.

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