

Preface

These are the proceedings of the fifth international conference, Formal Methods in Computer-Aided Design (FMCAD), held 15–17 November 2004 in Austin, Texas, USA. The conference provides a forum for presenting state-of-the-art tools, methods, algorithms, and theory for the application of formalized reasoning to all aspects of computer-aided system design, including specification, verification, synthesis, and testing.

FMCAD’s heritage dates back 20 years to some of the earliest conferences on the subject of formal reasoning and computer-aided design. Since 1996, FMCAD has assumed its present form, held biennially in North America, alternating with its sister conference CHARME in Europe. We are delighted to report that our research community continues to flourish: we received 69 paper submissions, with many more high-quality papers than we had room to accept. After a rigorous review process, in which each paper received at least three, and typically four or more, independent reviews, we accepted 29 papers for the conference and inclusion in this volume. The conference also included invited talks from Greg Spirakis of Intel Corporation and Wayne Wolf of Princeton University.

A conference of this size requires the contributions of numerous people. On the technical side, we are grateful to the program committee and the additional reviewers for their countless hours reviewing submissions and ensuring the intellectual quality of the conference. We would also like to thank the steering committee for their wisdom and guidance. On the logistical side, we thank Christa Mace for designing our website and attending to countless organizational tasks. And we thank our corporate sponsors – AMD, IBM, Intel, and Synopsys – for financial support that helped make this conference possible.

September 2004

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