Preface

This volume contains the research papers presented at the Third IEEE International Conference on Software Engineering and Formal Methods (SEFM 2005) held 7-9 September 2005 in Koblenz, Germany.

SEFM 2005 aimed to bring together practitioners and researchers from academia, industry, and government to advance the state of the art in formal methods, to scale up their application in software industry, and to encourage their integration with practical engineering methods.

SEFM originated from a workshop on Software Engineering and Formal Methods held in June 2002 in Adelaide, Australia, as a satellite event of the 23rd International Conference on Application and Theory of Petri-Nets. It became a major international conference, held very successfully in September 2003 in Brisbane, Australia, and in September 2004 in Beijing, China.

The Program Committee of SEFM 2005 received 120 submissions from over 34 countries. After each paper was reviewed by three referees and intensive discussion on the borderline papers was held during the online meeting of the Program Committee, 40 high-quality papers were accepted based on originality, technical soundness, presentation, and relevance to software engineering and formal methods. We wish to sincerely thank all the authors who submitted their work for consideration. We would like to thank the Program Committee members and the other referees for their great effort and professional work in the review and selection process. Their names are listed on the following pages.

Four very good tutorials and two attractive workshops have been selected as affiliated events of SEFM 2005. We thank all those who submitted tutorial and workshop proposals to support the conference.

In addition to the contributed papers, the program also includes five excellent keynote talks. We are grateful to Prof. Dines Bjørner, National University of Singapore; Prof. Anthony Hall, UK; Dr. K. Rustan M. Leino, Microsoft Research, USA; Prof. Wolfgang Paul, Universität des Saarlandes, Germany; and Prof. Joseph Sifakis, VERIMAG, France, for accepting our invitation to address the conference.

It is a team effort that has made the conference so successful. We would like to thank Peter H. Schmitt (General Chair) for his support and his participation in the conference organization. We are truly grateful to the Steering Committee members—in particular, the SC Chair, Antonio Cerone—for their support; to Mike Hinchey for his advice on legal and financial procedures; and to Wolfgang Ahrendt (Publicity Chair), Steffen Schlager (Finance Chair), and Werner Stephan (Tutorial and Workshop Chair) for their efficiency and hard work. We would particularly like to thank the local organizers for their diligent efforts and help in making the conference a success.

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