

Preface

This volume contains the proceedings of SPIN 2015, the 22nd International SPIN Symposium on Model Checking of Software, which was held August 24–26, 2015, in Stellenbosch, South Africa.

While the earlier meetings in the series focused—not exclusively, but primarily—on the use of SPIN and PROMELA, the scope of recent symposia has been broadened significantly. SPIN now attracts a much wider range of papers around the topic of software model checking, but it retains a healthy balance between theoretical advances and practical considerations.

SPIN 2015 received 27 submissions. Each one was reviewed by three Program Committee members, some of whom consulted with external reviewers. After a thorough and vivid discussion phase, the committee decided to accept 18 papers. Of these, there are 14 regular papers and four tool or new idea papers.

In addition to the presentations of the accepted papers, two invited talks were given by Tefvik Bultan (University of California, Santa Barbara) on “String Analysis for Vulnerability Detection and Repair,” and by Shaz Qadeer (Microsoft Research) on “Programming Devices and Services with P.” An invited tutorial was given by Michael Tautschnig (Queen Mary University of London) on “CBMC: Bounded Model Checking of Concurrent C Programs.”

The volume editors would like to thank all members of the Steering Committee, the Program Committee, as well as the external reviewers for their hard work that led to the selection of this year’s program. We are also grateful for the generous support of the National Research Foundation (NRF), grant KIC-97478, the Council of Scientific and Industrial Research (CSIR) through the Center for AI Research (CAIR), Microsoft Research, and the Amazon Development Center Cape Town.

August 2015

Bernd Fischer
Jaco Geldenhuys

Model Checking Software

22nd International Symposium, SPIN 2015,
Stellenbosch, South Africa, August 24-26, 2015,
Proceedings

Fischer, B.; Geldenhuys, J. (Eds.)

2015, XVIII, 319 p. 66 illus., Softcover

ISBN: 978-3-319-23403-8