

Table of Contents

Papers

Symmetric Spin.....	1
<i>Dragan Bošnački, Dennis Dams, and Leszek Holenderski</i> <i>(Eindhoven University of Technology)</i>	
Using Garbage Collection in Model Checking	20
<i>Radu Iosif and Riccardo Sisto (Politecnico di Torino)</i>	
Model Checking Based on Simultaneous Reachability Analysis	34
<i>Bengi Karaçalı and Kuo-Chung Tai (North Carolina State University)</i>	
Testing SPIN's LTL Formula Conversion into Büchi Automata with Randomly Generated Input	54
<i>Heikki Tauriainen and Keijo Heljanko (Helsinki University of Technology)</i>	
Verification and Optimization of a PLC Control Schedule	73
<i>Ed Brinksma (University of Twente) and Angelika Mader</i> <i>(University of Nijmegen)</i>	
Modeling the ASCB-D Synchronization Algorithm with SPIN: A Case Study	93
<i>Nicholas Weininger and Darren Cofer (Honeywell Technology Center)</i>	
Bebop: A Symbolic Model Checker for Boolean Programs	113
<i>Thomas Ball and Sriram K. Rajamani (Microsoft Research)</i>	
Logic Verification of ANSI-C Code with SPIN	131
<i>Gerard J. Holzmann (Lucent Technologies)</i>	
Interaction Abstraction for Compositional Finite State Systems	148
<i>Wayne Liu (University of Waterloo)</i>	
Correctness by Construction: Towards Verification in Hierarchical System Development	163
<i>Mila Majster-Cederbaum and Frank Salger (University of Mannheim)</i>	
Linking <i>STeP</i> with SPIN	181
<i>Anca Browne, Henny Sipma, and Ting Zhang (Stanford University)</i>	
Abstraction of Communication Channels in Promela: A Case Study	187
<i>Elena Fersman and Bengt Jonsson (Uppsala University)</i>	

A Language Framework for Expressing Checkable Properties of Dynamic Software 205
James C. Corbett (University of Hawaii), Matthew B. Dwyer, John Hatchiff, and Robby (Kansas State University)

Model-Checking Multi-threaded Distributed Java Programs 224
Scott D. Stoller (Indiana University)

Using Runtime Analysis to Guide Model Checking of Java Programs 245
Klaus Havelund (QSS/Recom at NASA Ames Research Center)

Communication Topology Analysis for Concurrent Programs 265
Mathieu Martel and Marc Gengler (Laboratoire d'Informatique de Marseille)

Low-Fat Recipes for SPIN 287
Theo C. Ruys (University of Twente)

Tool Tutorials

Tutorial on FDR and Its Applications 322
Philippa Broadfoot and Bill Roscoe (Oxford University)

The Temporal Rover and the ATG Rover 323
Doron Drusinsky (Time-Rover Inc.)

Runtime Checking of Multithreaded Applications with Visual Threads 331
Jerry J. Harrow (Compaq Computer Corporation)

Author Index 343



<http://www.springer.com/978-3-540-41030-0>

SPIN Model Checking and Software Verification
7th International SPIN Workshop Stanford, CA, USA,
August 30 - September 1, 2000 Proceedings
Havelund, K.; Penix, J.; Visser, W. (Eds.)
2000, X, 346 p., Softcover
ISBN: 978-3-540-41030-0