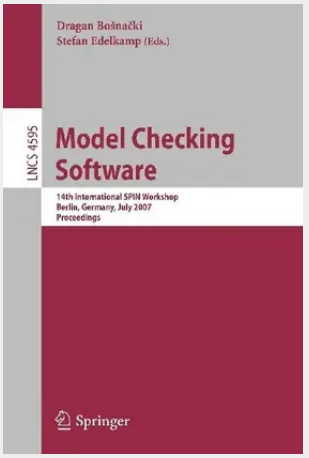
Bosnacki / Edelkamp

# Model Checking Software

14th International SPIN Workshop, Berlin, Germany, July 1-3, 2007, Proceedings

This book presents the proceedings of the 14th International SPIN workshop on Model Checking Software, held in Berlin, Germany. Fourteen full papers are presented, together with four tool presentation papers and the abstracts of two invited talks. The papers are organized into topical sections covering directed model checking, partial order reduction, program analysis, exploration advances, modeling and case studies, and tool demonstrations.

StackSnuffer: Curing Orion's Unsoundness.- Tutorial: Parallel Model Checking.- Local Abstraction-Refinement for the mu-Calculus.- Minimal Counterexample Generation for SPIN.- Generating Counter-Examples Through Randomized Guided Search.- Distributed Dynamic Partial Order Reduction Based Verification of Threaded Software.- Some Solutions to the Ignoring Problem.- Cartesian Partial-Order Reduction.- On-the-Fly Dynamic Dead Variable Analysis.- SAT-Based Summarization for Boolean Programs.- LTL Satisfiability Checking.- An Embeddable Virtual Machine for State Space Generation.- Scalable Multi-core LTL Model-Checking.- A SystemC/TLM Semantics in Promela and Its Possible Applications.- Towards Model Checking Spatial Properties with SPIN.- Model Extraction for ARINC 653 Based Avionics Software.- BEEM: Benchmarks for Explicit Model Checkers.- C.OPEN and ANNOTATOR: Tools for On-the-Fly Model Checking C Programs.- ACSAR: Software Model Checking with Transfinite Refinement.- Instrumenting C Programs with Nested Word Monitors.

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