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Nota di contenuto	Preprocessing and Inprocessing Techniques in SAT -- Pioneering the Future of Verification: A Spiral of Technological and Business Innovation -- Automated Detection and Repair of Concurrency Bugs -- Verification Challenges of Workload Optimized Hardware Systems -- Synthesis with Clairvoyance -- Generalized Reactivity(1) Synthesis without a Monolithic Strategy -- IIS-Guided DFS for Efficient Bounded Reachability Analysis of Linear Hybrid Automata -- Cube and Conquer: Guiding CDCL SAT Solvers by Lookaheads.Implicative Simultaneous Satisfiability and Applications -- Liveness vs Safety – A Practical Viewpoint -- Predicting Serializability Violations: SMT-Based Search vs. DPOR-Based Search -- SAM: Self-adaptive Dynamic Analysis for Multithreaded Programs -- Concurrent Small Progress Measures --

Specification and Quantitative Analysis of Probabilistic Cloud
Deployment Patterns -- Interpolation-Based Function Summaries in
Bounded Model Checking -- Can File Level Characteristics Help Identify
System Level Fault-Proneness -- Reverse Coverage Analysis --
Symbolic Testing of OpenCL Code -- Dynamic Test Data Generation for
Data Intensive Applications -- Injecting Floating-Point Testing
Knowledge into Test Generators -- Combining Theorem Proving and
Symbolic Trajectory Evaluation in THM&STE -- HAVEN: An Open
Framework for FPGA-Accelerated Functional Verification of Hardware
-- On-Line Detection and Prediction of Temporal Patterns -- Function
Summaries in Software Upgrade Checking -- The Rabin Index of Parity
Games -- Using Computational Biology Methods to Improve Post-
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Liveness vs Safety – A Practical Viewpoint -- Predicting Serializability
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Floating-Point Testing Knowledge into Test Generators -- Combining
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Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Haifa Verification Conference, HVC 2011, held in Haifa, Israel in December 2011. The 15 revised full papers presented together with 3 tool papers and 4 posters were carefully reviewed and selected from 43 submissions. The papers are organized in topical sections on synthesis, formal verification, software quality, testing and coverage, experience and tools, and posters-student event.
