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| Classificazione | DAT 325f SS 4800 |
| Disciplina | 005.1 |
| Soggetti | Software engineering Compilers (Computer programs) Computer science Software Engineering Compilers and Interpreters Computer Science Logic and Foundations of Programming |
| Lingua di pubblicazione | Inglese |
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| Note generali | This volume contains the proceedings of the 16th International SPIN Workshop on Model Checking of Software (SPIN 2009), that was held at the Grenoble World Trade Center, in Grenoble France, June 26-28, 2009.--Pref. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Invited Contributions -- Software Model Checking Improving Security of a Billion Computers -- On Quantitative Software Verification -- The Quest for Correctness-Beyond a Posteriori Verification -- Who Really Cares If the Program Crashes? -- Regular Papers -- Tool Presentation: Teaching Concurrency and Model Checking -- Fast, All-Purpose State Storage -- Efficient Probabilistic Model Checking on General Purpose Graphics Processors -- Improving Non-Progress Cycle Checks -- Reduction of Verification Conditions for Concurrent System Using Mutually Atomic Transactions -- Probabilistic Reachability for Parametric Markov Models -- Extrapolation-Based Path Invariants for Abstraction Refinement of Fifo Systems -- A Decision Procedure for Detecting Atomicity Violations for Communicating Processes with Locks |

-- Eclipse Plug-In for Spin and st2msc Tools-Tool Presentation --
Symbolic Analysis via Semantic Reinterpretation -- EMMA: Explicit
Model Checking Manager (Tool Presentation) -- Efficient Testing of
Concurrent Programs with Abstraction-Guided Symbolic Execution --
Subsumer-First: Steering Symbolic Reachability Analysis -- Identifying
Modeling Errors in Signatures by Model Checking -- Towards Verifying
Correctness of Wireless Sensor Network Applications Using Insense and
Spin -- Verification of GALS Systems by Combining Synchronous
Languages and Process Calculi -- Experience with Model Checking
Linearizability -- Automatic Discovery of Transition Symmetry in
Multithreaded Programs Using Dynamic Analysis.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th
International SPIN workshop on Model Checking Software, SPIN 2009,
held in Grenoble, France, in June 2009. The 15 revised full papers
presented together with 3 tool papers and 4 invited talks were carefully
reviewed and selected from 41 submissions. The papers cover
theoretical and algorithmic foundations as well as tools for software
model checking by addressing theoretical advances and empirical
evaluations related to state-space and path exploration techniques, as
implemented in software verification tools.
