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Altri autori (Persone)	PasareanuCorina S
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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.

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#### 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.

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