

1. Record Nr.	UNISA996465724703316
Titolo	Computer Aided Verification [[electronic resource] ] : 16th International Conference, CAV 2004, Boston, MA, USA, July 13-17, 2004, Proceedings / / edited by Rajeev Alur, Doron A. Peled
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	3-540-27813-3
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (XII, 536 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3114
Disciplina	005.1
Soggetti	Computers Software engineering Logic design Computer logic Mathematical logic Artificial intelligence Theory of Computation Software Engineering Logic Design Logics and Meanings of Programs Mathematical Logic and Formal Languages Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Rob Tristan Gerth: 1956–2003 -- Static Program Analysis via 3-Valued Logic -- Deductive Verification of Pipelined Machines Using First-Order Quantification -- A Formal Reduction for Lock-Free Parallel Algorithms -- An Efficiently Checkable, Proof-Based Formulation of Vacuity in Model Checking -- Termination of Linear Programs -- Symbolic Model Checking of Non-regular Properties -- Proving More Properties with Bounded Model Checking -- Parallel LTL-X Model Checking of High-Level Petri Nets Based on Unfoldings -- Using Interface Refinement to Integrate Formal Verification into the Design Cycle -- Indexed Predicate

Discovery for Unbounded System Verification -- Range Allocation for Separation Logic -- An Experimental Evaluation of Ground Decision Procedures -- DPLL(T): Fast Decision Procedures -- Verifying  $\omega$ -Regular Properties of Markov Chains -- Statistical Model Checking of Black-Box Probabilistic Systems -- Compositional Specification and Model Checking in GSTE -- GSTE Is Partitioned Model Checking -- Stuck-Free Conformance -- Symbolic Simulation, Model Checking and Abstraction with Partially Ordered Boolean Functional Vectors -- Functional Dependency for Verification Reduction -- Verification via Structure Simulation -- Symbolic Parametric Safety Analysis of Linear Hybrid Systems with BDD-Like Data-Structures -- Abstraction-Based Satisfiability Solving of Presburger Arithmetic -- Widening Arithmetic Automata -- Why Model Checking Can Improve WCET Analysis -- Regular Model Checking for LTL(MSO) -- Image Computation in Infinite State Model Checking -- Abstract Regular Model Checking -- Global Model-Checking of Infinite-State Systems -- QB or Not QB: An Efficient Execution Verification Tool for Memory Orderings -- Verification of an Advanced mips-Type Out-of-Order Execution Algorithm -- Automatic Verification of Sequential Consistency for Unbounded Addresses and Data Values -- Efficient Modeling of Embedded Memories in Bounded Model Checking -- Understanding Counterexamples with explain -- Zapato: Automatic Theorem Proving for Predicate Abstraction Refinement -- JNuke: Efficient Dynamic Analysis for Java -- The HiVy Tool Set -- ObsSlice: A Timed Automata Slicer Based on Observers -- The UCLID Decision Procedure -- MCK: Model Checking the Logic of Knowledge -- Zing: A Model Checker for Concurrent Software -- The Mec 5 Model-Checker -- PlayGame: A Platform for Diagnostic Games -- SAL 2 -- Formal Analysis of Java Programs in JavaFAN -- A Toolset for Modelling and Verification of GALS Systems -- WSAT: A Tool for Formal Analysis of Web Services -- CVC Lite: A New Implementation of the Cooperating Validity Checker -- CirCUs: A Satisfiability Solver Geared towards Bounded Model Checking -- Mechanical Mathematical Methods for Microprocessor Verification.

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