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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2102
Disciplina	005.74
Soggetti	Database management Computers Software engineering Computer logic Mathematical logic Artificial intelligence Database Management Theory of Computation Software Engineering/Programming and Operating Systems Logics and Meanings of Programs Mathematical Logic and Formal Languages Artificial Intelligence
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talk -- Software Documentation and the Verification Process -- Model Checking and Theorem Proving -- Certifying Model Checkers -- Formalizing a JVMML Verifier for Initialization in a Theorem Prover -- Automated Inductive Verification of Parameterized Protocols? -- Automata Techniques -- Efficient Model Checking Via Büchi Tableau Automata? -- Fast LTL to Büchi Automata Translation -- A Practical Approach to Coverage in Model Checking -- Verification Core Technology -- A Fast Bisimulation Algorithm -- Symmetry and Reduced Symmetry in Model Checking? -- Transformation-Based Verification

Using Generalized Retiming -- BDD and Decision Procedures -- Meta-BDDs: A Decomposed Representation for Layered Symbolic Manipulation of Boolean Functions -- CLEVER: Divide and Conquer Combinational Logic Equivalence VERification with False Negative Elimination -- Finite Instantiations in Equivalence Logic with Uninterpreted Functions -- Abstraction and Refinement -- Model Checking with Formula-Dependent Abstract Models -- Verifying Network Protocol Implementations by Symbolic Refinement Checking -- Automatic Abstraction for Verification of Timed Circuits and Systems? -- Combinations -- Automated Verification of a Randomized Distributed Consensus Protocol Using Cadence SMV and PRISM? -- Analysis of Recursive State Machines -- Parameterized Verification with Automatically Computed Inductive Assertions? -- Tool Presentations: Rewriting and Theorem-Proving Techniques -- EVC: A Validity Checker for the Logic of Equality with Uninterpreted Functions and Memories, Exploiting Positive Equality, and Conservative Transformations -- AGVI — Automatic Generation, Verification, and Implementation of Security Protocols -- ICS: Integrated Canonizer and Solver? -- μ CRL: A Toolset for Analysing Algebraic Specifications -- Truth/SLC — A Parallel Verification Platform for Concurrent Systems -- The SLAM Toolkit -- Invited Talk -- Java Bytecode Verification: An Overview -- Infinite State Systems -- Iterating Transducers -- Attacking Symbolic State Explosion -- A Unifying Model Checking Approach for Safety Properties of Parameterized Systems -- A BDD-Based Model Checker for Recursive Programs -- Temporal Logics and Verification -- Model Checking the World Wide Web? -- Distributed Symbolic Model Checking for λ -Calculus -- Tool Presentations: Model-Checking and Automata Techniques -- The Temporal Logic Sugar -- TReX: A Tool for Reachability Analysis of Complex Systems -- BOOSTER: Speeding Up RTL Property Checking of Digital Designs by Word-Level Abstraction -- SDLcheck: A Model Checking Tool -- EASN: Integrating ASN.1 and Model Checking -- Rtdt: A Front-End for Efficient Model Checking of Synchronous Timing Diagrams -- TAXYS: A Tool for the Development and Verification of Real-Time Embedded Systems? -- Microprocessor Verification, Cache Coherence -- Microarchitecture Verification by Compositional Model Checking -- Rewriting for Symbolic Execution of State Machine Models -- Using Timestamping and History Variables to Verify Sequential Consistency -- SAT, BDDs, and Applications -- Benefits of Bounded Model Checking at an Industrial Setting -- Finding Bugs in an Alpha Microprocessor Using Satisfiability Solvers -- Towards Efficient Verification of Arithmetic Algorithms over Galois Fields $GF(2^m)$ -- Timed Automata -- Job-Shop Scheduling Using Timed Automata? -- As Cheap as Possible: Efficient Cost-Optimal Reachability for Priced Timed Automata -- Binary Reachability Analysis of Pushdown Timed Automata with Dense Clocks.
