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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2725
Disciplina	005.14
Soggetti	Computers Computer logic Logic design Special purpose computers Software engineering Mathematical logic Theory of Computation Logics and Meanings of Programs Logic Design Special Purpose and Application-Based Systems Software Engineering Mathematical Logic and Formal Languages
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Extending Bounded Model Checking -- Interpolation and SAT-Based Model Checking -- Bounded Model Checking and Induction: From Refutation to Verification -- Symbolic Model Checking -- Reasoning with Temporal Logic on Truncated Paths -- Structural Symbolic CTL Model Checking of Asynchronous Systems -- A Work-Efficient Distributed Algorithm for Reachability Analysis -- Games, Trees, and Counters -- Modular Strategies for Infinite Games on Recursive Graphs -- Fast Mu-Calculus Model Checking when Tree-Width Is Bounded -- Dense Counter Machines and Verification Problems -- Tool

Presentations I -- TRIM: A Tool for Triggered Message Sequence Charts -- Model Checking Multi-Agent Programs with CASP -- Monitoring Temporal Rules Combined with Time Series -- FAST: Fast Acceleration of Symbolic Transition Systems -- Rabbit: A Tool for BDD-Based Verification of Real-Time Systems -- Abstraction I -- Making Predicate Abstraction Efficient: -- A Symbolic Approach to Predicate Abstraction -- Unbounded, Fully Symbolic Model Checking of Timed Automata Using Boolean Methods -- Dense Time -- Digitizing Interval Duration Logic -- Timed Control with Partial Observability -- Hybrid Acceleration Using Real Vector Automata -- Tool Presentations II -- Abstraction and BDDs Complement SAT-Based BMC in DiVer -- TLQSolver: A Temporal Logic Query Checker -- Evidence Explorer: A Tool for Exploring Model-Checking Proofs -- HERMES: An Automatic Tool for Verification of Secrecy in Security Protocols -- Infinite State Systems -- Iterating Transducers in the Large -- Algorithmic Improvements in Regular Model Checking -- Efficient Image Computation in Infinite State Model Checking -- Abstraction II -- Thread-Modular Abstraction Refinement -- A Game-Based Framework for CTL Counterexamples and 3-Valued Abstraction-Refinement -- Abstraction for Branching Time Properties -- Applications -- Certifying Optimality of State Estimation Programs -- Domain-Specific Optimization in Automata Learning -- Model Checking Conformance with Scenario-Based Specifications -- Theorem Proving -- Deductive Verification of Advanced Out-of-Order Microprocessors -- Theorem Proving Using Lazy Proof Explication -- Automata-Based Verification -- Enhanced Vacuity Detection in Linear Temporal Logic -- Bridging the Gap between Fair Simulation and Trace Inclusion -- An Improved On-the-Fly Tableau Construction for a Real-Time Temporal Logic -- Invariants -- Strengthening Invariants by Symbolic Consistency Testing -- Linear Invariant Generation Using Non-linear Constraint Solving -- Explicit Model Checking -- To Store or Not to Store -- Calculating ω -Confluence Compositionally.
