

1. Record Nr.	UNINA9910484725203321
Titolo	Tools and algorithms for the construction and analysis of systems : 16th international conference, TACAS 2010, Held as Part of the Joint European Conference on Theory and Practice of Software, ETAPS 2010, Paphos, Cyprus, March 20-29, 2010 : proceedings / / Javier Esparza, Rupak Majumdar (eds.)
Pubbl/distr/stampa	Berlin ; ; Heidelberg, : Springer-Verlag, 2010
ISBN	1-280-38585-5 9786613563774 3-642-12002-4
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (XVI, 468 p. 102 illus.)
Collana	Lecture notes in computer science ; ; 6015
Classificazione	DAT 310f DAT 500f SS 4800
Altri autori (Persone)	EsparzaJavier MajumdarRupak
Disciplina	005.12
Soggetti	System design System analysis
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 and index.
Nota di contenuto	Invited Talks -- Embedded Systems Design — Scientific Challenges and Work Directions -- Antichain Algorithms for Finite Automata -- Probabilistic Systems and Optimization -- Assume-Guarantee Verification for Probabilistic Systems -- Simple O(m logn) Time Markov Chain Lumping -- Model Checking Interactive Markov Chains -- Approximating the Pareto Front of Multi-criteria Optimization Problems -- Decision Procedures -- An Alternative to SAT-Based Approaches for Bit-Vectors -- Satisfiability Modulo the Theory of Costs: Foundations and Applications -- Optimal Tableau Algorithms for Coalgebraic Logics -- Blocked Clause Elimination -- Tools I -- Boom: Taking Boolean Program Model Checking One Step Further -- The OpenSMT Solver -- Stranger: An Automata-Based String Analysis Tool for PHP -- Automata Theory -- When Simulation Meets Antichains -- On Weak Modal Compatibility, Refinement, and the MIO Workbench -- Rational

Synthesis -- Efficient Büchi Universality Checking -- Liveness -- Automated Termination Analysis for Programs with Second-Order Recursion -- Ranking Function Synthesis for Bit-Vector Relations -- Fairness for Dynamic Control -- Tools II -- JTorX: A Tool for On-Line Model-Driven Test Derivation and Execution -- SLAB: A Certifying Model Checker for Infinite-State Concurrent Systems -- Tracking Heaps That Hop with Heap-Hop -- Software Verification -- Automatic Analysis of Scratch-Pad Memory Code for Heterogeneous Multicore Processors -- Simplifying Linearizability Proofs with Reduction and Abstraction -- A Polymorphic Intermediate Verification Language: Design and Logical Encoding -- Trace-Based Symbolic Analysis for Atomicity Violations -- Tools III -- ACS: Automatic Converter Synthesis for SoC Bus Protocols -- AIPiNA: An Algebraic Petri Net Analyzer -- PASS: Abstraction Refinement for Infinite Probabilistic Models -- Real Time and Information Flow -- Arrival Curves for Real-Time Calculus: The Causality Problem and Its Solutions -- Computing the Leakage of Information-Hiding Systems -- Statistical Measurement of Information Leakage -- SAT Based Bounded Model Checking with Partial Order Semantics for Timed Automata -- Testing -- Preemption Sealing for Efficient Concurrency Testing -- Code Mutation in Verification and Automatic Code Correction -- Efficient Detection of Errors in Java Components Using Random Environment and Restarts.
