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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7595
Disciplina	004.01/51
Soggetti	Computer science Software engineering Compilers (Computer programs) Machine theory Computer programming Algorithms Computer Science Logic and Foundations of Programming Software Engineering Compilers and Interpreters Formal Languages and Automata Theory Programming Techniques
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Invited Talks -- Model-Driven Design-Space Exploration for Software-Intensive Embedded Systems (Extended Abstract) -- Statistical Model Checking, Refinement Checking, Optimization, for Stochastic Hybrid Systems.-Robustness of Time Petri Nets under Architectural Constraints -- Toward a Timed Theory of Channel Coding -- Playing Optimally on Timed Automata with Random Delays -- Dynamically-Driven Timed Automaton Abstractions for Proving Liveness of Continuous Systems -- Revisiting Timed Specification Theories: A Linear-Time Perspective -- Multi-core Reachability for Timed Automata -- Counterexample-Guided Synthesis of Observation Predicates --

Confidence Bounds for Statistical Model Checking of Probabilistic Hybrid Systems -- Region-Based Analysis of Hybrid Petri Nets with a Single General One-Shot Transition -- Reducing Quasi-Equal Clocks in Networks of Timed Automata -- SMT-Based Induction Methods for Timed Systems -- Timed Automata with Disjoint Activity -- The Complexity of Bounded Synthesis for Timed Control with Partial Observability -- Static Detection of Zeno Runs in UPPAAL Networks Based on Synchronization Matrices and Two Data-Variable Heuristics -- Frequencies in Forgetful Timed Automata -- Mcta: Heuristics and Search for Timed Systems.

Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International Conference on Formal Modeling and Analysis of Timed Systems, FORMATS 2012, held in London, UK in September 2012. The 16 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 34 submissions. The book covers topics of foundations and semantics, methods and tools, techniques, algorithms, hybrid automata, applications, real-time software and hardware circuits.
