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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5215
Disciplina	004.33
Soggetti	Computer programming Computer science Software engineering Compilers (Computer programs) Programming Techniques Theory of Computation Software Engineering Computer Science Logic and Foundations of Programming Models of Computation Compilers and Interpreters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Some Recent Results in Metric Temporal Logic -- Composing Web Services in an Open World: Issues of Quality of Service -- Comparing the Expressiveness of Timed Automata and Timed Extensions of Petri Nets -- Session 1. Extensions of Timed Automata and Semantics -- Infinite Runs in Weighted Timed Automata with Energy Constraints -- Concavely-Priced Timed Automata -- Average-Price and Reachability-Price Games on Hybrid Automata with Strong Resets -- Timed Automata with Integer Resets: Language Inclusion and Expressiveness -- Session 2. Timed Games and Logic -- Complexity of Metric Temporal Logics with Counting and the Pnueli Modalities -- MTL with Bounded Variability: Decidability and Complexity -- Timed Parity

Games: Complexity and Robustness -- On Scheduling Policies for Streams of Structured Jobs -- Session 3. Case Studies -- A Framework for Distributing Real-Time Functions -- Formal Modeling and Scheduling of Datapaths of Digital Document Printers -- Session 4. Model-Checking of Probabilistic Systems -- A Uniformization-Based Algorithm for Model Checking the CSL Until Operator on Labeled Queueing Networks -- Model Checking HML on Piecewise-Constant Inhomogeneous Markov Chains -- Session 5. Verification and Test -- Convergence Verification: From Shared Memory to Partially Synchronous Systems -- Compositional Abstraction in Real-Time Model Checking -- On Conformance Testing for Timed Systems -- Session 6. Time Petri Nets -- Relevant Timed Schedules / Clock Valuations for Constructing Time Petri Net Reachability Graphs -- Parametric Model-Checking of Time Petri Nets with Stopwatches Using the State-Class Graph.

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Sommario/riassunto

This book constitutes the refereed proceedings of the 6th International Conference on Formal Modeling and Analysis of Timed Systems, FORMATS 2008, held in Saint Malo, France, September 2008. The 17 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 37 submissions. The papers are organized in topical sections on extensions of timed automata and semantics; timed games and logic; case studies; model-checking of probabilistic systems; verification and test; timed petri nets.

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