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Descrizione fisica	1 online resource (XVI, 245 p. 75 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 9641
Disciplina	005.14
Soggetti	Software engineering Compilers (Computer programs) Computer science Machine theory Software Engineering Compilers and Interpreters Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Automated Analysis of Asynchronously Communicating Systems -- Symbolic Game Semantics for Model Checking Program Families -- Compositional Semantics and Analysis of Hierarchical Block Diagrams -- Using SPIN for the Optimized Scheduling of Discrete Event Systems in Manufacturing -- River Basin Management with SPIN -- ESBMCQtOM: A Bounded Model Checking Tool to Verify Qt Applications -- Autonomous Agent Behaviour Modelled in PRISM -- Certification for - Calculus with Winning Strategies -- Real-Time Strategy Synthesis for Timed-Arc Petri Net Games via Discretization -- Finite-Horizon Bisimulation Minimisation for Probabilistic Systems -- Schedulability Analysis of Distributed Real-Time Sensor Network Applications Using Actor-Based Model Checking -- smid: A Black-Box Program Driver -- On-the-Fly Model Checking for Extended Action-Based Probabilistic Operators -- SymDIVINE: Tool for Control-Explicit Data-Symbolic State

Space Exploration -- A Tool Integrating Model Checking into a C Verification Toolset -- Fair Testing and Stubborn Sets.

Sommario/riassunto

This book constitutes the refereed proceedings of the 23rd International Symposium on Model Checking Software, SPIN 2016, held in Eindhoven, The Netherlands, in April 2016. The 16 papers presented, consisting of 11 regular papers, 1 idea paper, and 4 tool demonstrations, were carefully reviewed and selected from 27 submissions. Topics covered include model checking techniques, model checking tools, concurrent system semantics, equivalence checking, temporal logics, probabilistic systems, schedule and strategy synthesis using model checking, and verification case studies.