

1. Record Nr.	UNISA996465965603316
Titolo	Model Checking Software [[electronic resource]] : 10th International SPIN Workshop. Portland, OR, USA, May 9-10, 2003, Proceedings // edited by Thomas Ball, Sriram K. Rajamani
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-44829-2
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (VIII, 241 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2648
Disciplina	005.1/4
Soggetti	Application software Software engineering Computer logic Programming languages (Electronic computers) Computer Applications Software Engineering/Programming and Operating Systems Logics and Meanings of Programs Software Engineering Programming Languages, Compilers, Interpreters
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	Optimal Scheduling Using Branch and Bound with SPIN 4.0 -- A Requirements Patterns-Driven Approach to Specify Systems and Check Properties -- Formal Modeling and Analysis of an Avionics Triplex Sensor Voter -- Distributed Explicit Fair Cycle Detection (Set Based Approach) -- Efficient Model Checking of Safety Properties -- A Light-Weight Algorithm for Model Checking with Symmetry Reduction and Weak Fairness -- A SAT Characterization of Boolean-Program Correctness -- What Went Wrong: Explaining Counterexamples -- A Nearly Memory-Optimal Data Structure for Sets and Mappings -- Checking Consistency of SDL+MSC Specifications -- Model Checking Publish-Subscribe Systems -- A Methodology for Model-Checking Ad-hoc Networks -- Promela Planning -- Thread-Modular Model Checking -- Unification & Sharing in Timed Automata Verification -- The Maude

Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International SPIN workshop on Model Checking of Software, SPIN 2003, held in Portland, OR, USA in May 2003 as an ICSE 2003 satellite workshop. The 14 revised full papers and 3 revised tool papers presented were carefully reviewed and selected from 30 submissions. The book presents state-of-the-art results on the analysis and verification of distributed software systems using the SPIN model checker as one of the most powerful and widely applied systems.