

1. Record Nr.	UNISA996466105003316
Titolo	Tools and Algorithms for the Construction and Analysis of Systems [[electronic resource]] : 4th International Conference, TACAS'98, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS'98, Lisbon, Portugal, March 28 - April 4, 1998, Proceedings // edited by Bernhard Steffen
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1998
ISBN	3-540-69753-5
Edizione	[1st ed. 1998.]
Descrizione fisica	1 online resource (XV, 461 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1384
Disciplina	004.2/1
Soggetti	Computers Computer logic Software engineering Computer communication systems Theory of Computation Logics and Meanings of Programs Software Engineering Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Formal verification of pipelined processors -- Fully local and efficient evaluation of alternating fixed points -- Modular model checking of software -- Verification based on local states -- Exploiting symmetry in linear time temporal logic model checking: One step beyond -- OPEN/CÆSAR: An open software architecture for verification, simulation, and testing -- Practical model-checking using games -- Combining finite automata, parallel programs and SDL using Petri nets -- Mesa: Support for scenario-based design of concurrent systems -- Efficient modeling of memory arrays in symbolic ternary simulation -- Translation validation -- A verified model checker for the modal ?- calculus in Coq -- Detecting races in relay ladder logic programs -- Verification of large state/event systems using compositionality and

dependency analysis -- Tamagotchis need not die — Verification of state machine designs -- Modeling and verification of sC++ applications -- Factotum: Automatic and systematic sharing support for systems analyzers -- Model checking via reachability testing for timed automata -- Formal design and analysis of a gear controller -- Verifying networks of timed processes -- Model checking of real-time reachability properties using abstractions -- Symbolic exploration of transition hierarchies -- Static partial order reduction -- Set-based analysis of reactive infinite-state systems -- Deciding fixed and non-fixed size bit-vectors -- Experience with literate programming in the modelling and validation of systems -- A proof of Burns' N-process mutual exclusion algorithm using abstraction -- Automated verification of Szymanski's algorithm -- Formal verification of SDL systems at the Siemens mobile phone department.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS'98, held in conjunction with ETAPS in Lisbon, Portugal, in March/April 1998. The 28 revised full papers presented together with an invited talk were selected from a total of 78 submissions. The volume is devoted to conceptual foundations, development, and applications of tools and algorithms for the specification, verification, analysis, and construction of software and hardware systems. The papers are organized in sections on model checking, design and architecture, various applications, fielded applications, verification of real-time systems, mixed analysis techniques, and case studies and experience.
