1. Record Nr. UNINA9910768474203321 Tools and Algorithms for the Construction and Analysis of Systems: **Titolo** 7th International Conference, TACAS 2001 Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2001 Genova, Italy, April 2-6, 2001 Proceedings / / edited by Tiziana Margaria, Wang Yi Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, Pubbl/distr/stampa , 2001 **ISBN** 3-540-45319-9 Edizione [1st ed. 2001.] Descrizione fisica 1 online resource (XIV, 594 p.) Lecture Notes in Computer Science, , 0302-9743 ; ; 2031 Collana Disciplina 004.2/11 Soggetti Software engineering Computer logic Computer networks **Algorithms** Software Engineering/Programming and Operating Systems Logics and Meanings of Programs Software Engineering Computer Communication Networks Algorithm Analysis and Problem Complexity 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 Invited Contributions -- Branching vs. Linear Time: Final Showdown --Propositional Reasoning -- Symbolic Verification -- Language Containment Checking with Nondeterministic BDDs -- Satisfiability Checking Using Boolean Expression Diagrams -- A Library for Composite Symbolic Representations -- Infinite State Systems: Deduction and Abstraction -- Synthesis of Linear Ranking Functions --Automatic Deductive Verification with Invisible Invariants --Incremental Verification by Abstraction -- A Technique for Invariant Generation -- Application of Model Checking Techniques -- Model Checking Syllabi and Student Careers -- Verification of Vortex Workflows -- Parameterized Verification of Multithreaded Software

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Sommario/riassunto

This book constitutes the refereed proceedings of the 7th International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS 2001. The 36 revised full papers presented together with an invited contribution were carefully reviewed and selected from a total of 125 submissions. The papers are organized in sections on symbolic verification, infinite state systems - deduction and abstraction, application of model checking techniques, timed and probabilistic systems, hardware - design and verification, software verification, testing - techniques and tools, implementation techniques, semantics and compositional verification, logics and model checking, and ETAPS tool demonstration.