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Soggetti	Computer-aided engineering
	Computer logic
	Computers Computer communication systems
	Special purpose computers
	Software engineering
	Computer-Aided Engineering (CAD, CAE) and Design
	Logics and Meanings of Programs
	Information Systems and Communication Service
	Computer Communication Networks
	Special Purpose and Application-Based Systems
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks Policies and Proofs for Code Auditing Recent Trend in Industry and Expectation to DA Research Toward Property-Driven Abstraction for Heap Manipulating Programs Branching vs. Linear Time: Semantical Perspective Regular Papers Mind the Shapes: Abstraction Refinement Via Topology Invariants Complete SAT- Based Model Checking for Context-Free Processes Bounded Model Checking of Analog and Mixed-Signal Circuits Using an SMT Solver Model Checking Contracts A Case Study On the Efficient

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	Computation of the Minimal Coverability Set for Petri Nets Analog/Mixed-Signal Circuit Verification Using Models Generated from Simulation Traces Automatic Merge-Point Detection for Sequential Equivalence Checking of System-Level and RTL Descriptions Proving Termination of Tree Manipulating Programs Symbolic Fault Tree Analysis for Reactive Systems Computing Game Values for Crash Games Timed Control with Observation Based and Stuttering Invariant Strategies Deciding Simulations on Probabilistic Automata Mechanizing the Powerset Construction for Restricted Classes of ?- Automata Verifying Heap-Manipulating Programs in an SMT Framework A Generic Constructive Solution for Concurrent Games with Expressive Constraints on Strategies Distributed Synthesis for Alternating-Time Logics Timeout and Calendar Based Finite State Modeling and Verification of Real-Time Systems Efficient Approximate Verification of Promela Models Via Symmetry Markers Latticed Simulation Relations and Games Providing Evidence of Likely Being on Time: Counterexample Generation for CTMC Model Checking Assertion-Based Proof Checking of Chang-Roberts Leader Election in PVS Continuous Petri Nets: Expressive Power and Decidability Issues Quantifying the Discord: Order Discrepancies in Message Sequence Charts A Formal Methodology to Test Complex Heterogeneous Systems A New Approach to Bounded Model Checking for Branching Time Logics Exact State Set Representations in the Verification of Linear Hybrid Systems with Large Discrete State Space A Compositional Semantics for Dynamic Fault Trees in Terms of Interactive Markov Chains 3-Valued Circuit SAT for STE with Automatic Refinement Bounded Synthesis Short Papers Formal Modeling and Verification of High-Availability Protocol for Network Security Appliances A Brief Introduction to On-the-Fly Model Checking of Fair Non-repudiation Protocols Model Checking Bounded Prioritized Time Petri Nets Using Patterns and Composite
Sommario/riassunto	Predicate Abstraction. This book constitutes the refereed proceedings of the 5th International Symposium on Automated Technology for Verification and Analysis, ATVA 2007, held in Tokyo, Japan, October 22-25, 2007. The 29 revised
	full papers presented together with 7 short papers were carefully reviewed and selected from 88 submissions. The papers address theoretical methods to achieve correct software or hardware systems, including both functional and non functional aspects; as well as applications of theory in engineering methods and particular domains and handling of practical problems occurring in tools.