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	Disciplina	003/.3
	Soggetti	Computers Computer logic Programming languages (Electronic computers) Microprocessors Computers, Special purpose Software engineering Theory of Computation Logics and Meanings of Programs Programming Languages, Compilers, Interpreters Processor Architectures Special Purpose and Application-Based Systems Software Engineering
	Lingua di pubblicazione	Inglese
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	Livello bibliografico	Monografia
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	Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
	Nota di contenuto	Invited Papers From Software to Hardware and Back Of Elections and Electrons Regular Papers Formal Verification of an Avionics Sensor Voter Using SCADE Mixed Delay and Threshold Voters in Critical Real-Time Systems Towards a Methodological Approach to Specification and Analysis of Dependable Automation Systems On Two-Sided Approximate Model-Checking: Problem Formulation and

	Solution via Finite Topologies On Timed Automata with Input- Determined Guards Decomposing Verification of Timed I/O Automata Symbolic Model Checking for Simply-Timed Systems Robustness and Implementability of Timed Automata Real-Time Testing with Timed Automata Testers and Coverage Criteria Monitoring Temporal Properties of Continuous Signals A Unified Fault-Tolerance Protocol Automating the Addition of Fail-Safe Fault- Tolerance: Beyond Fusion-Closed Specifications Modeling and Verification of a Fault-Tolerant Real-Time Startup Protocol Using Calendar Automata Static Fault-Tolerant Real-Time Scheduling with "Pseudo-topological" Orders The Influence of Durational Actions on Time Equivalences Bounded Model Checking for Region Automata Some Progress in Satisfiability Checking for Difference Logic Model- Checking for Weighted Timed Automata Symbolic Model Checking for Probabilistic Timed Automata Structured Modeling of Concurrent Stochastic Hybrid Systems Computing Schedules for Multithreaded Real-Time Programs Using Geometry Forward Reachability Analysis of Timed Petri Nets Lazy Approximation for Dense Real-Time
Sommario/riassunto	This volume contains the proceedings of the joint conference on Formal M- elling and Analysis of Timed Systems (FORMATS) and Formal Techniques in Real-Time and Fault Tolerant Systems (FTRTFT), held in Grenoble,France,on September 22–24,2004. The conference united two previously independently - ganized conferences FORMATS and FTRTFT. FORMATS 2003 was organized asasatelliteworkshopofCONCUR2003andwasrelatedtothreeindependentl y started workshop series: MTCS (held as a satellite event of CONCUR 2000 and CONCUR 2002), RT-TOOLS (held as a satellite event of CONCUR 2001 and FLoC 2002) and TPTS (held at ETAPS 2002). FTRTFT is a symposium that was held seven times before: in Warwick 1988, Nijmegen 1992, Lu "beck 1994, Uppsala 1996, Lyngby 1998, Pune 2000 and Oldenburg 2002. The proceedings of these symposia were published as volumes 331, 571, 863, 1135, 1486, 1926, and 2469 in the LNCS series by Springer. Thisjointconferenceis dedicatedtotheadvancementofthetheoryandpr- ticeofthe modelling, designandanalysisofreal-timeandfault-tolerantsystems. Indeed, computersystemsarebecomingincreasinglywidespreadinreal-timeand safety-critical applications such as embedded systems. Such systems are char- terized by the crucial need to manage their complexity in order to produce reliable designs and implementations. The importance of timing aspects, p- formance and fault-tolerance is continuously growing. Formal techniques o?er a foundation for systematic design of complex systems. They have bene?cial - plications through oppeci? cration. design. coding and compilation. down to the bardware that