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Software engineering
Computer logic
Programming languages (Electronic computers) Software Engineering/Programming and Operating Systems
Software Engineering
Logics and Meanings of Programs
Programming Languages, Compilers, Interpreters
Inglese
Materiale a stampa
Monografia
Bibliographic Level Mode of Issuance: Monograph
Includes bibliographical references at the end of each chapters and index.
Tutorials Model-Based Development: Combining Engineering Approaches and Formal Techniques Tutorial on the RAISE Language, Method and Tools Model-Based Testing with Spec# Formal Engineering for Industrial Software Development An Introduction to the SOFL Specification Language and Method Tutorial: Software Model Checking Invited Talks Engineering Quality Software When Can Formal Methods Make a Real Difference? On the Adoption of Formal Methods by Industry: The ACL2 Experience A CLP Approach to Modelling Systems Full Papers Multi-prover Verification of C Programs Memory-Model-Sensitive Data Race Analysis Formal Models for Web Navigations with Session Control and Browser Cache Managing Verification Activities Using SVM A General Model for Reachability Testing of Concurrent Programs A

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	Knowledge Based Analysis of Cache Coherence A Propositional Logic-Based Method for Verification of Feature Models Deriving Probabilistic Semantics Via the 'Weakest Completion' CSP Representation of Game Semantics for Second-Order Idealized Algol An Equational Calculus for Alloy Guiding Spin Simulation Linear Inequality LTL (iLTL): A Model Checker for Discrete Time Markov Chains Software Model Checking Using Linear Constraints Counterexample Guided Abstraction Refinement Via Program Execution Faster Analysis of Formal Specifications Bridging Refinement of Interface Automata to Forward Simulation of I/O Automata Learning to Verify Safety Properties Automatic Extraction of Object-Oriented Observer Abstractions from Unit-Test Executions A Specification- Based Approach to Testing Polymorphic Attributes From Circus to JCSP An Approach to Preserve Protocol Consistency and Executability Across Updates A Formal Monitoring-Based Framework for Software Development and Analysis Verifying a File System Implementation Verifying the On-line Help System of SIEMENS Magnetic Resonance Tomographs Implementing Dynamic Aggregations of Abstract Machines in the B Method Formal Proof from UML Models Interactive Verification of UML State Machines Refinement of Actions for Real-Time Concurrent Systems with Causal Ambiguity From Durational Specifications to TLA Designs of Timed Automata Timed Patterns: TCOZ to Timed Automata.
Sommario/riassunto	Formal engineering methods are changing the way that software systems are - veloped.Withlanguageandtoolsupport, theyarebeingusedforautomaticcode generation, and for the automatic abstraction and checking of implementations. In the future, they will be used at every stage of development: requirements, speci?cation, design, implementation, testing, and documentation. The ICFEM series of conferences aims to bring together those interested in the application of formal engineering methods to computer systems. Researchers and practitioners, from industry, academia, and government, are encouraged to attend, andtohelpadvancethestateoftheart.Authorsarestronglyencouraged to make their ideas as accessible as possible, and there is a clear emphasis upon work that promises to bring practical, tangible bene?t: reports of case studies should have a conceptual message, theory papers should have a clear link to application, and papers describing tools should have an account of results. ICFEM 2004 was the sixth conference in the series, and the ?rst to be held in North America. Previous conferences were held in Singapore, China, UK, A- tralia, and Japan. The Programme Committee received 110 papers and selected 30forpresentation.The?nalversionsofthosepapersareincludedhere, together with 2-page abstracts for the 5 accepted tutorials, and shorter abstracts for the 4 invited talks.