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Descrizione fisica	1 online resource (XV, 620 p.)
Collana	Programming and Software Engineering ; ; 4085
Disciplina	005.3
Soggetti	Software engineering
	Computer logic
	Programming languages (Electronic computers)
	Computer programming Mathematical logic
	Software Engineering/Programming and Operating Systems
	Software Engineering
	Logics and Meanings of Programs
	Programming Languages, Compilers, Interpreters
	Programming Techniques
	Mathematical Logic and Formal Languages
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 Talk The Embedded Systems Design Challenge Interactive Verification The Mondex Challenge: Machine Checked Proofs for an Electronic Purse Interactive Verification of Medical Guidelines Certifying Airport Security Regulations Using the Focal Environment Proving Safety Properties of an Aircraft Landing Protocol Using I/O Automata and the PVS Theorem Prover: A Case Study Invited Talk Validating the Microsoft Hypervisor Formal Modelling of Systems Interface Input/Output Automata Properties of Behavioural Model Merging Automatic Translation from Circus to Java Quantitative Refinement and Model Checking for the Analysis of Probabilistic

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Systems -- Real Time -- Modeling and Validating Distributed Embedded Real-Time Systems with VDM++ -- Towards Modularized Verification of Distributed Time-Triggered Systems -- Industrial Experience -- A Story About Formal Methods Adoption by a Railway Signaling Manufacturer -- Partially Introducing Formal Methods into Object-Oriented Development: Case Studies Using a Metrics-Driven Approach -- Specification Refinement -- Compositional Class Refinement in Object-Z -- A Proposal for Records in Event-B --Pointfree Factorization of Operation Refinement -- A Formal Template Language Enabling Metaproof -- Programming Languages -- Dynamic Frames: Support for Framing, Dependencies and Sharing Without Restrictions -- Type-Safe Two-Level Data Transformation -- Algebra -- Feature Algebra -- Education -- Using Domain-Independent Problems for Introducing Formal Methods -- Formal Modelling of Systems -- Compositional Binding in Network Domains -- Formal Modeling of Communication Protocols by Graph Transformation --Feature Specification and Static Analysis for Interaction Resolution -- A Fully General Operational Semantics for UML 2.0 Sequence Diagrams with Potential and Mandatory Choice -- Formal Aspects of Java --Towards Automatic Exception Safety Verification -- Enforcer -- Efficient Failure Injection -- Automated Boundary Test Generation from JML Specifications -- Formal Reasoning About Non-atomic Java Card Methods in Dynamic Logic -- Programming Languages -- Formal Verification of a C Compiler Front-End -- A Memory Model Sensitive Checker for C# -- Changing Programs Correctly: Refactoring with Specifications -- Mechanical Verification of Recursive Procedures Manipulating Pointers Using Separation Logic -- Model Checking --Model-Based Variable and Transition Orderings for Efficient Symbolic Model Checking -- Exact and Approximate Strategies for Symmetry Reduction in Model Checking -- Monitoring Distributed Controllers: When an Efficient LTL Algorithm on Sequences Is Needed to Model-Check Traces -- PSL Model Checking and Run-Time Verification Via Testers -- Industry Day: Abstracts of Invited Talks -- Formal Methods for Security: Lightweight Plug-In or New Engineering Discipline --Formal Methods in the Security Business: Exotic Flowers Thriving in an Expanding Niche -- Connector-Based Software Development: Deriving Secure Protocols -- Model-Based Security Engineering for Real -- Cost Effective Software Engineering for Security -- Formal Methods and Cryptography -- Verified Software Grand Challenge.