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Nota di contenuto	Invited Papers -- Software Testing Research and Practice -- Abstract State Processes -- Recent Advances in Refinement -- Partial Updates Exploration II -- Experiments with Test Case Generation and Runtime Analysis -- A Framework for Proving Contract-Equipped Classes -- Mobile UNITY Schemas for Agent Coordination -- UML and Concurrency -- Research Papers -- A Unified Formal Specification and Analysis of the New Java Memory Models -- Modelling Conditional Knowledge Discovery and Belief Revision by Abstract State Machines -- Formal

Description of a Distributed Location Service for Mobile Ad Hoc Networks -- Remarks on Turbo ASMs for Functional Equations and Recursion Schemes -- Integrating UML Static and Dynamic Views and Formalizing the Interaction Mechanism of UML State Machines -- The Hidden Computation Steps of Turbo Abstract State Machines -- Using Spin to Generate Tests from ASM Specifications -- Interfacing ASM with the MDG Tool -- ASMs versus Natural Semantics: A Comparison with New Insights -- Quantum Computing and Abstract State Machines -- Consistent Integration for Sequential Abstract State Machines -- Deciding the Verification Problem for Abstract State Machines -- An ASM Semantics of UML Derived from the Meta-model and Incorporating Actions -- Privacy, Abstract Encryption and Protocols: An ASM Model - Part I -- A Framework for Modeling the Semantics of Expression Evaluation with Abstract State Machines -- Extended Abstracts -- Using AsmL for Runtime Verification -- Modeling Information Services on the Basis of ASM Semantics -- Designing the Parlay Call-Control Using ASMs -- Test Case Generation from AsmL Specifications -- Teaching ASMs, Teaching with ASMs: Opportunities in Undergraduate Education -- Using ASM Specifications for Compiler Testing -- ASMs as Integration Platform towards Verification and Validation of Distributed Production Control Systems at Multiple Levels of Abstraction -- AsmL Specification of a Ptolemy II Scheduler -- ASM Specification of Database Systems -- The Computable Kernel of ASM -- A Non-standard Approach to Operational Semantics for Timed Systems -- Parallelism versus Nondeterminism — On the Semantics of Abstract State Machines.

Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International Workshop on Abstract State Machines, ASM 2003, held in Taormina, Italy in March 2003. The 16 revised full papers presented together with 8 invited papers and 12 abstracts were carefully reviewed and selected for inclusion in the book. The papers reflect the state of the art of the abstract state machine method for the design and analysis of complex software/hardware systems. Besides theoretical results and methodological progress, application in various fields are studied as well.
