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Collana	Programming and Software Engineering ; ; 8570
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Soggetti	Software engineering Computer programming Computer logic Mathematical logic Programming languages (Electronic computers) Computer simulation Software Engineering Programming Techniques Logics and Meanings of Programs Mathematical Logic and Formal Languages Programming Languages, Compilers, Interpreters Simulation and Modeling
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Model-Based Mutation Testing of an Industrial Measurement Device -- Computing with an SMT Solver -- An Abstraction Technique for Testing Decomposable Systems by Model Checking -- An All-in-One Toolkit for Automated White-Box Testing -- Behaviour Driven Development for Tests and Verification -- Quality Assurance in MBE Back and Forth -- Visualizing Unbounded Symbolic Execution -- Film stripping and Unrolling: A Comparison of Verification Approaches for UML and OCL Behavioral Models -- Generating Classified Parallel Unit Tests -- JTACO: Test Execution for Faster Bounded Verification -- Explicit

Assumptions - A Prenup for Marrying Static and Dynamic Program Verification -- A Case Study on Verification of a Cloud Hypervisor by Proof and Structural Testing -- Runtime Assertion Checking and Its Combinations with Static and Dynamic Analyses: Tutorial Synopsis -- Generating Test Data from a UML Activity Using the AMPL Interface for Constraint Solvers -- Lightweight State Capturing for Automated Testing of Multithreaded Programs -- How Test Generation Helps Software Specification and Deductive Verification in Frama-C.

Sommario/riassunto

This book constitutes the refereed proceedings of the 8th International Conference on Tests and Proofs, TAP 2014, held in York, UK, in July 2014, as part of the STAF 2014 Federated Conferences. The 10 revised full papers and 4 short papers presented together with two tutorial descriptions were carefully reviewed and selected from 27 submissions. The papers cover topics in the following four research areas: test generation, bridging semantic gaps, integrated development processes and bounded verification.
