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Collana	Programming and Software Engineering, , 2945-9168 ; ; 5668
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Soggetti	Computer science Computer networks Software engineering Electronic digital computers—Evaluation Theory of Computation Computer Communication Networks Software Engineering System Performance and Evaluation Computer Science Logic and Foundations of Programming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"This volume contains the research papers and invited papers presented at the Third International Conference on Tests and Proofs (TAP 2009) held at ETH Zurich, Switzerland, during July 2-3, 2009"--Pref.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Security Testing and Formal Methods for High Levels Certification of Smart Cards -- Verification, Testing and Statistics -- Development of a Generic Voter under FoCal -- Combining Satisfiability Solving and Heuristics to Constrained Combinatorial Interaction Testing -- Incorporating Historical Test Case Performance Data and Resource Constraints into Test Case Prioritization -- Complementary Criteria for Testing Temporal Logic Properties -- Could We Have Chosen a Better Loop Invariant or Method Contract? -- Consistency, Independence and Consequences in UML and OCL Models -- Dynamic Symbolic Execution for Testing Distributed Objects -- Combining Model Checking and

Testing in a Continuous HW/SW Co-verification Process -- Symbolic Execution Based Model Checking of Open Systems with Unbounded Variables -- Finding Errors of Hybrid Systems by Optimising an Abstraction-Based Quality Estimate.

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## Sommario/riassunto

This book constitutes the refereed proceedings of the Third International Conference on Test and Proofs, TAP 2009, held in Zurich, Switzerland, in July 2009. The 10 revised full papers presented together with 2 keynote talks were carefully reviewed and selected from 20 submissions. The papers cover the area of convergence of software proofing and testing and feature current research work that combines ideas from both areas for the advancement of software quality. Topics addressed are generation of test data, oracles, or preambles by theorem proving, model checking, symbolic execution, or constraint logic programming; generation of specifications by deduction; verification techniques combining proofs and tests; program proving with the aid of testing techniques; transfer of concepts from testing to proving; automatic bug finding; formal frameworks; tool descriptions and experience reports; and case studies.

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