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Descrizione fisica	1 online resource (X, 207 p. 339 illus., 34 illus. in color.)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 11823
Disciplina	005.14
Soggetti	Software engineering Compilers (Computer programs) Computer science Machine theory Electronic digital computers - Evaluation Software Engineering Compilers and Interpreters Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory System Performance and Evaluation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes Index.
Nota di contenuto	When are Software Verification Results Valid for Approximate Hardware -- Testing Robots using CSP -- Constraints in Dynamic Symbolic Execution: Bitvectors or Integers -- Fast, Automatic and Nearly Complete Structural Unit Test Generation Combining Genetic Algorithms and Formal Methods -- Coverage-Based Testing with Symbolic Transition Systems -- BTestBox - A tool for testing B translators and coverage of B models -- Predicting and Testing Latencies with Deep Learning: an IoT Case Study -- Learning Communicating State Machines -- Repairing Timed Automata Clock Guards through Abstraction and Testing -- Proving a Non-Blocking Algorithm for Process Renaming with TLA+ -- Tame your annotations

Sommario/riassunto

This book constitutes the refereed proceedings of the 13th International Conference on Tests and Proofs, TAP 2019, held as part of the Third World Congress on Formal Methods 2019, Porto, Portugal, in October 2019. The 10 regular papers and 2 invited paper presented in this volume were carefully reviewed and selected from 19 submissions. The TAP conference promotes research in verification and formal methods that targets the interplay of proofs and testing: the advancement of techniques of each kind and their combination, with the ultimate goal of improving software and system dependability.
