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Collana	Programming and Software Engineering ; ; 9762
Disciplina	005.14
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 contenuto	Using Formal Methods for Verification and Validation in Railway -- Monadic Sequence Testing and Explicit Test-Refinements -- Advances in Property-Based Testing for alphaProlog -- Tests and Proofs for Enumerative Combinatorics -- Classifying Test Suite Effectiveness via Model Inference and ROBBDs -- Lightweight Symbolic Verification of Graph Transformations with Off-The-Shelf Hardware Model Checkers -- Testing-Based Formal Verification for Theorems and Its Application in Software Specification Verification -- Your Proof Fails? Testing Helps to Find the Reason -- Classifying Bugs with Interpolants -- Debugging

meets testing in Erlang -- Combining Dynamic and Static Analysis to help develop Correct Graph Transformations -- Automatic predicate testing in formal certification. .

Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International Conference on Tests and Proofs, TAP 2016, held as part of STAF 2016, in Vienna, Austria, in July 2016. The 8 full papers, 2 short papers, and 1 tool demonstration paper presented in this volume were carefully reviewed and selected from 19 submissions. The book also contains one invited talk in full-paper length. 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.
