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Descrizione fisica	1 online resource (XVI, 193 p. 221 illus., 30 illus. in color.)
Collana	Programming and Software Engineering ; ; 12031
Disciplina	005.14
Soggetti	Software engineering Computer logic Programming languages (Electronic computers) Computer system failures Special purpose computers Computers Software Engineering Logics and Meanings of Programs Programming Languages, Compilers, Interpreters System Performance and Evaluation Special Purpose and Application-Based Systems The Computing Profession
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Uncertainty, Modeling and Safety Assurance: Towards a Unified Framework -- Combinations of Reusable Abstract Domains for a Multilingual Static Analyzer -- Verifying Network Control Planes -- Verifiable Homomorphic Tallying for the Schulze Vote Counting Scheme -- Incremental Minimization of Symbolic Automata -- Seamless Interactive Program Verification -- Formal Verification of Work Flow Policies for Smart Contracts in Azure Blockchain -- Ghost Code in Action: Automated Verification of a Symbolic Interpreter -- DCSynth:

Guided Reactive Synthesis with Soft Requirements -- Refinement type contracts for verification of scientific investigative software -- solc-verify: A Modular Verifier for Solidity Smart Contracts -- Intersection and Rotation of Assumption Literals Boosts Bug-Finding.

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Sommario/riassunto

This volume constitutes the thoroughly refereed post-conference proceedings of the 11th International Conference on Verified Software: Theories, Tools, and Experiments, VSTTE 2019, held in New York City, NY, USA, in July 2019. The 9 full papers presented were carefully revised and selected from 17 submissions. The papers describe large-scale verification efforts that involve collaboration, theory unification, tool integration, and formalized domain knowledge as well as novel experiments and case studies evaluating verification techniques and technologies.

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