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Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14000
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Soggetti	Software engineering Computer science Computers, Special purpose Programming languages (Electronic computers) Microprogramming Natural language processing (Computer science) Software Engineering Computer Science Logic and Foundations of Programming Special Purpose and Application-Based Systems Programming Language Control Structures and Microprogramming Natural Language Processing (NLP)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Keynotes -- Symbolic Computation in Automated Program Reasoning -- The next big thing: from embedded systems to embodied actors -- Intelligent and Dependable Decision-Making Under Uncertainty -- A Coq formalization of Lebesgue Induction Principle and Tonelli's Theorem -- SAT/SMT -- Railway Scheduling Using Boolean Satisfiability Modulo Simulations -- SMT Sampling via Model-Guided Approximation -- Efficient SMT-based Network Fault Tolerance Verification -- Verification I -- Formalising the Prevention of Microarchitectural Timing

Channels by Operating Systems -- Can we Communicate? Using Dynamic Logic to Verify Team Automata -- The ScalaFix equation solver -- HHLPy: Practical Verification of Hybrid Systems using Hoare Logic -- Quantitative Verification -- symQV: Automated Symbolic Verification of Quantum Programs -- PFL: a Probabilistic Logic for Fault Trees -- Energy BuechiProblems -- QMaude: quantitative specification and verification in rewriting logic -- Concurrency and Memory Models -- Minimisation of Spatial Models using Branching Bisimilarity -- Reasoning about Promises in Weak Memory Models with Event Structures -- A fine-grained semantics for arrays and pointers under weak memory models -- VeyMont: Parallelising Verified Programs instead of Verifying Parallel Programs -- Verification 2 -- Verifying At the Level of Java Bytecode -- Abstract Alloy Instances -- Monitoring the Internet Computer -- Word Equations in Synergy with Regular Constraints -- Formal Methods in AI -- Verifying Feedforward Neural Networks for Classification in Isabelle/HOL -- SMPT: A Testbed for Reachabilty Methods in Generalized Petri Nets -- The Octatope Abstract Domain for Verification of Neural Networks -- Program Semantics and Verification Technique for AI-centred Programs -- Safety and Reliability -- Tableaux for Realizability of Safety Specifications -- A Decision Diagram Operation for Reachability -- Formal Modelling of Safety Architecture for Responsibility-Aware Autonomous Vehicle via Event-B Refinement -- A Runtime Environment for Contract Automata -- Industry Day -- Formal and Executable Semantics of the Ethereum Virtual Machine in Dafny -- Shifting Left for Early Detection of Machine-Learning Bugs -- A Systematic Approach to Automotive Security -- Specification-Guided Critical Scenario Identification for Automated Driving -- Runtime Monitoring for Out-of-Distribution Detection in Object Detection Neural Networks -- Backdoor Mitigation in Deep Neural Networks via Strategic Retraining -- veriFIRE: Verifying an Industrial, Learning-Based Wildfire Detection System.

Sommario/riassunto

This book constitutes the refereed proceedings of the 25th International Symposium on Formal Methods, FM 2023, which took place in Lübeck, Germany, in March 2023. The 26 full paper, 2 short papers included in this book were carefully reviewed and selected rom 95 submissions. They have been organized in topical sections as follows: SAT/SMT; Verification; Quantitative Verification; Concurrency and Memory Models; Formal Methods in AI; Safety and Reliability. The proceedings also contain 3 keynote talks and 7 papers from the industry day. .
