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Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14500
Disciplina	005.14
Soggetti	Computer science Computer science - Mathematics Logic programming Computers, Special purpose Software engineering Microprogramming Theory of Computation Mathematics of Computing Logic in AI Special Purpose and Application-Based Systems Software Engineering Control Structures and Microprogramming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Concurrency -- Petrification: Software Model Checking for Programs with Dynamic Thread Management -- A Fully Verified Persistency Library -- A Navigation Logic for Recursive Programs with Dynamic Thread Creation -- Neural Networks -- Taming Reachability Analysis of DNN-Controlled Systems via Abstraction-Based Training -- Verification of Neural Networks' Local Differential Classification Privacy -- AGNES: Abstraction-guided Framework for Deep Neural Network Security -- Probabilistic and Quantum Programs Guaranteed inference for probabilistic programs: a parallelisable, small-step operational

approach -- Local Reasoning about Probabilistic Behaviour for Classical-Quantum Programs -- Program and System Verification -- Deductive Verification of Parameterized Embedded Systems modeled in SystemC -- Automatically Enforcing Rust Trait Properties -- Borrowable Fractional Ownership Types for Verification -- Runtime Verification -- TP-DejaVu: Combining Operational and Declarative Runtime Verification -- Synthesizing Efficiently Monitorable Formulas in Metric Temporal Logic -- Security and Privacy -- Automatic and Incremental Repair for Speculative Information Leaks -- Sound Abstract Nonexploitability Analysis.

Sommario/riassunto

The two-volume set LNCS 14499 and 14500 constitutes the proceedings of the 25th International Conference on Verification, Model Checking, and Abstract Interpretation, VMCAI 2024, which took place in London, Ontario, Canada, in January 2024. The 30 full papers presented in the proceedings were carefully reviewed and selected from 74 submissions. They were organized in topical sections as follows: Part I: Abstract interpretation; infinite-state systems; model checking and synthesis; SAT, SMT, and automated reasoning; Part II: Concurrency; neural networks; probabilistic and quantum programs; program and system verification; runtime verification; security and privacy; .
