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Descrizione fisica	1 online resource (328 pages)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 13008
Disciplina	005.13
Soggetti	Compilers (Computer programs) Artificial intelligence Computer science Computer engineering Computer networks Computer systems Compilers and Interpreters Artificial Intelligence Computer Science Logic and Foundations of Programming Computer Engineering and Networks Computer System Implementation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Analysis and Synthesis -- Scalable and Modular Robustness Analysis of Deep Neural Networks -- Function Pointer Eliminator for C Programs -- PyCT: A Python Concolic Tester -- Program Synthesis for Musicians: A Usability Testbed for Temporal Logic Specifications -- Server-Side Computation of Package Dependencies in Package-Management Systems -- Compilation and Transformation -- Fully Abstract and Robust Compilation and How to Reconcile the Two, Abstractly -- A Dictionary-Passing Translation of Featherweight Go -- Hybrid quantum-classical circuit simplification with the ZX-calculus -- A compilation method for dynamic typing in ML -- Language Design -- The Choice Construct in the Soufflé Language -- Latent Effects for

Reusable Language Components -- Adaptable Traces for Program Explanations -- A Typed Programmatic Interface to Contracts on the Blockchain -- Verification -- Simplifying of Alternating Automata for Emptiness Testing -- Termination Analysis for the pi-Calculus by Reduction to Sequential Program Termination -- Proving LTL Properties of Bitvector Programs and Decompiled Binaries -- Solving Not-Substring Constraint with Flat Abstraction.-.

Sommario/riassunto

This book constitutes the proceedings of the 19th Asian Symposium on Programming Languages and Systems, APLAS 2021, held in Chicago, USA, in October 2021.* The 17 papers presented in this volume were carefully reviewed and selected from 43 submissions. They were organized in topical sections named: analysis and synthesis, compilation and transformation, language, and verification. * The conference was held in a hybrid format due to the COVID-19 pandemic.
