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| Collana | Programming and Software Engineering, , 2945-9168 ; ; 12470 |
| Disciplina | 005.13 |
| Soggetti | Compilers (Computer programs) Artificial intelligence Computer programming Computer science Software engineering Computer engineering Computer networks Compilers and Interpreters Artificial Intelligence Programming Techniques Computer Science Logic and Foundations of Programming Software Engineering Computer Engineering and Networks |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | Program Analysis and Verification -- A Set-Based Context Model for Program Analysis -- Declarative Stream Runtime Verification (hLola) -- Formal Verification of Atomicity Requirements for Smart Contracts -- Types -- Neural Networks, Secure by Construction: An Exploration of Refinement Types -- A New Refinement Type System for Automated nu-HFLZ Validity Checking -- Behavioural Types for Memory and Method Safety in a Core Object-Oriented Language -- Syntactically Restricting Bounded Polymorphism for Decidable Subtyping -- |

Semantics -- An Abstract Machine for Strong Call by Value -- Certified Semantics for Relational Programming -- Algebraic and Coalgebraic Perspectives on Interaction Laws -- Program Generation, Transactions and Automation -- Stack-Driven Program Generation of WebAssembly -- Banyan: Coordination-free Transactions over Mergeable Replicated Data Types -- Automatically Generating Descriptive Texts in Logging Statements: How Far Are We? -- Synthesis and Program Transformation -- Synthesis and Program Transformation -- Relational Synthesis for Pattern Matching -- REFINITY to Model and Prove Program Transformation Rules -- Debugging, Profiling and Constraint Solving -- A Counterexample-Guided Debugger for Non-Recursive Datalog -- A Symbolic Algorithm for the Case-Split Rule in String Constraint Solving -- P3: A Profiler Suite for Parallel Applications on the Java Virtual Machine.

Sommario/riassunto

This book constitutes the proceedings of the 18th Asian Symposium on Programming Languages and Systems, APLAS 2020, held in Fukuoka, Japan, in December 2020.* The 19 papers presented in this volume were carefully reviewed and selected from 46 submissions. They were organized in topical sections named: Invited Papers, Types, Program Analysis, Semantics, Language Design and Implementation, Concurrency, Verification, and Logic and Automata. * The conference was held virtually due to the COVID-19 pandemic.
