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Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIV, 381 p. 98 illus., 46 illus. in color.)
Collana	Lecture notes in computer science ; ; 12389
Disciplina	005.1
Soggetti	Computer programming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Polynomial Invariants for Affine Programs -- Cost Analysis of Smart Contracts via Parametric Resource Analysis -- Memory-Efficient Fixpoint Computation -- Abstract Neural Networks -- Termination of Polynomial Loops -- Stratified Guarded First-order Transition Systems -- Predicate Abstraction and CEGAR for nuHFL(Z) Validity Checking -- Counterexample- and Simulation-Guided Floating-Point Loop Invariant Synthesis -- Harming Dynamic Analysis -- Simple and Efficient Computation of Minimal Weak Control Closure -- A Library Modeling Language for the Static Analysis of C Programs -- Interprocedural Shape Analysis Using Separation Logic-Based Transformer Summaries -- Probabilistic Lipschitz Analysis of Neural Networks -- On Multi-Language Abstraction: Towards a Static Analysis of Multi-Language Programs -- Exact and Linear-Time Gas-Cost Analysis -- Farkas-Based Tree Interpolation.
Sommario/riassunto	This book constitutes the refereed proceedings of the 27th International Symposium on Static Analysis, SAS 2020, held in Chicago, IL, USA, in November 2020. The 14 regular papers presented in this book together with 2 invited talks and 1 extended abstract, were carefully reviewed and selected from 34 submissions. The papers cover topics such as abstract domains; abstract interpretation; automated deduction; data flow analysis; debugging; deductive methods; emerging applications; model-checking; program transformations;

predicate abstraction; security analysis; tool environments and architectures; and type checking. Due to the Corona pandemic this event was held virtually.

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