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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12042
Disciplina	005.115
Soggetti	Computer science Computer engineering Computer networks Computer simulation Application software Artificial intelligence Computer Science Logic and Foundations of Programming Computer Engineering and Networks Computer Modelling Computer and Information Systems Applications Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Reversibilization in Functional and Concurrent Programming -- Horn clauses and tree automata for imperative program verification -- On xpoint/iteration/variant induction principles for proving total correctness of programs with denotational semantics -- A General Framework for Static Cost Analysis of Parallel Logic Programs -- Incremental Analysis of Logic Programs with Assertions and Open Predicates -- Computing Abstract Distances in Logic Programs -- Synthesizing Imperative Code from Answer Set Programming Specifications -- Verified Construction of Fair Voting Rules -- Solving Proximity Constraints -- A Certified Functional Nominal C- Unification

Algorithm -- Modeling and Reasoning in Event Calculus Using Goal-Directed Constraint Answer Set Programming -- An Integrated Approach to Assertion-Based Random Testing in Prolog.-Trace analysis using an Event-driven Interval Temporal Logic -- The Prolog debugger and declarative programming -- A Port Graph Rewriting Approach to Relational Database Modelling -- Generalization-driven semantic clone detection in CLP -- Semi-Inversion of Conditional Constructor Term Rewriting Systems.

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the 29th International Symposium on Logic-Based Program Synthesis and Transformation, LOPSTR 2019, held in Porto, Portugal, in October 2019. The 15 revised full papers were carefully reviewed and selected from 32 submissions. In addition to the 15 papers, this volume includes 2 invited papers. The symposium cover all aspects of logic-based program development, stages of the software life cycle, and issues of both programming-in-the-small and programming-in-the-large. This year LOPSTR extends its traditional topics to include also logic-based program development based on integration of sub-symbolic and symbolic models, on machine learning techniques and on differential semantics. The papers are grouped into the following topics: static analysis, program synthesis, constraints and unification, debugging and verification, and program transformation.