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| Disciplina | 004.015113 |
| Soggetti | Computer science Artificial intelligence Software engineering Machine theory Computer engineering Computer networks Computer Science Logic and Foundations of Programming Artificial Intelligence Software Engineering Formal Languages and Automata Theory Computer Engineering and Networks |
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| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Rewriting -- Symbolic Computation in Maude: Some Tapas (Invited Paper) -- Runtime Complexity Analysis of Logically Constrained Rewriting -- Confluence and Commutation for Nominal Rewriting Systems with Atom Variables -- Pattern eliminating transformations -- Unification -- Nominal Unification with Letrec and Environment-Variables -- Terminating Non-Disjoint Combined Unification -- Types -- sIepice: Towards a Verified Implementation of Type Theory in Type Theory -- Resourceful Program Synthesis from Graded Linear Types -- Verification -- On Constrained Horn Clauses and Program Verification (Invited Paper) -- Algorithm Selection for Dynamic Symbolic Execution: |

a Preliminary Study -- Translation of Interactive Datalog Programs for Microcontrollers to Finite State Machines -- Model Checking and Probabilistic Programming -- Generating Functions for Probabilistic Programs -- Verification of Multiplayer Stochastic Games via Abstract Dependency Graphs -- Program Analysis and Testing -- Testing Your (Static Analysis) Truths -- Slicing unconditional jumps with unnecessary control dependencies -- Logics -- A Formal Model for a Linear Time Correctness Condition of Proof Nets of Multiplicative Linear Logic -- Synthesis of Modality Definitions and a Theorem Prover for Epistemic Intuitionistic Logic.

Sommario/riassunto

This book constitutes the refereed proceedings of the 30th International Conference on Logic-Based Program Synthesis and Transformation, LOPSTR 2020, which was held during September 7-9, 2020. The 15 papers presented in this volume were carefully reviewed and selected from a total of 31 submissions. The book also contains two invited talks in full paper length. The contributions were organized in topical sections named: rewriting; unification; types; verification; model checking and probabilistic programming; program analysis and testing; and logics.
