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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 8312
Disciplina	005.1
Soggetti	Software engineering Artificial intelligence Computer science Machine theory Computer programming Compilers (Computer programs) Software Engineering Artificial Intelligence Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Programming Techniques Compilers and Interpreters
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Nota di contenuto	An Algorithm for Enumerating Maximal Models of Horn Theories with an Application to Modal Logics -- May-Happen-in-Parallel Analysis for Priority-Based Scheduling -- The Complexity of Clausal Fragments of LTL -- A Semantic Basis for Proof Queries and Transformations -- Expressive Path Queries on Graphs with Data -- Proving Infinite Satisfiability -- SAT-Based Preprocessing for MaxSAT -- Dynamic and Static Symmetry Breaking in Answer Set Programming -- HOL Based First-Order Modal Logic Provers -- Resourceful Reachability as HORN-

LA -- A Seligman-Style Tableau System -- Comparison of LTL to Deterministic Rabin Automata Translators -- Tree Interpolation in Vampire -- Polarizing Double-Negation Translations -- Revisiting the Equivalence of Shininess and Politeness -- Towards Rational Closure for Fuzzy Logic: The Case of Propositional Gödel Logic -- Multi-objective Discounted Reward Verification in Graphs and MDPs -- Description Logics, Rules and Multi-context Systems -- Complexity Analysis in Presence of Control Operators and Higher-Order Functions -- Zenon Modulo: When Achilles Outruns the Tortoise Using Deduction Modulo -- Long-Distance Resolution: Proof Generation and Strategy Extraction in Search-Based QBF Solving -- Verifying Temporal Properties in Real Models -- A Graphical Language for Proof Strategies -- A Proof of Strong Normalisation of the Typed Atomic Lambda-Calculus -- Relaxing Synchronization Constraints in Behavioral Programs -- Characterizing Subset Spaces as Bi-topological Structures -- Proof-Pattern Recognition and Lemma Discovery in ACL2 -- Semantic A-translations and Super-Consistency Entail Classical Cut Elimination -- Blocked Clause Decomposition -- Maximal Falsifiability: Definitions, Algorithms, and Applications -- Solving Geometry Problems Using a Combination of Symbolic and Numerical Reasoning -- On QBF Proofs and Preprocessing -- Partial Backtracking in CDCL Solvers -- Lemma Mining over HOL Light -- On Module-Based Abstraction and Repair of Behavioral Programs -- Prediction and Explanation over DL-Lite Data Streams -- Forgetting Concept and Role Symbols in ALCH-Ontologies -- Simulating Parity Reasoning -- Herbrand Theorems for Substructural Logics -- On Promptness in Parity Games -- Defining Privacy Is Supposed to Be Easy -- Reachability Modules for the Description Logic SRIQ -- An Event Structure Model for Probabilistic Concurrent Kleene Algebra -- Three SCC-Based Emptiness Checks for Generalized Büchi Automata -- PeRIPLO: A Framework for Producing Effective Interpolants in SAT-Based Software Verification -- Incremental Tabling for Query-Driven Propagation of Logic Program Updates -- Tracking Data-Flow with Open Closure Types -- Putting Newton into Practice: A Solver for Polynomial Equations over Semirings -- System Description: E 1.8 -- Formalization of Laplace Transform Using the Multivariable Calculus Theory of HOL-Light -- On Minimality and Integrity Constraints in Probabilistic Abduction -- POLAR: A Framework for Proof Refactoring.

Sommario/riassunto

This book constitutes the proceedings of the 19th International Conference on Logic for Programming, Artificial Intelligence and Reasoning, LPAR-19, held in December 2013 in Stellenbosch, South Africa. The 44 regular papers and 8 tool descriptions and experimental papers included in this volume were carefully reviewed and selected from 152 submissions. The series of International Conferences on Logic for Programming, Artificial Intelligence and Reasoning (LPAR) is a forum where year after year, some of the most renowned researchers in the areas of logic, automated reasoning, computational logic, programming languages and their applications come to present cutting-edge results, to discuss advances in these fields and to exchange ideas in a scientifically emerging part of the world.
