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Nota di contenuto	Applications of Finite Duality to Locally Finite Varieties of BL-Algebras -- Completeness Results for Memory Logics -- Canonical Signed Calculi, Non-deterministic Matrices and Cut-Elimination -- Temporalization of Probabilistic Propositional Logic -- Logic and Bounded-Width Rational Languages of Posets over Countable Scattered Linear Orderings -- The Logic of Proofs as a Foundation for Certifying Mobile Computation -- ATL with Strategy Contexts and Bounded Memory -- A Relational Model of a Parallel and Non-deterministic ?-Calculus -- The NP-Completeness of Reflected Fragments of Justification Logics -- Taming Modal Impredicativity: Superlazy Reduction -- Positive Fork Graph Calculus -- Games on Strings with a Limited Order Relation -- Complete Axiomatizations of MSO, FO(TC 1) and FO(LFP 1) on Finite Trees -- Tableau-Based Procedure for Deciding Satisfiability in the Full Coalitional Multiagent Epistemic Logic -- A Clausal Approach to Proof Analysis in Second-Order Logic -- Hypersequent Systems for the Admissible Rules of Modal and Intermediate Logics -- Light Linear Logic with Controlled Weakening -- Fuzzy Description Logic Reasoning Using a Fixpoint Algorithm -- Quantitative Comparison of Intuitionistic and Classical Logics - Full Propositional System -- Tableaux and Hypersequents for Justification Logic -- Topological Forcing Semantics with Settling -- Automata and

Answer Set Programming -- A Labeled Natural Deduction System for a Fragment of CTL * -- Conservativity for Logics of Justified Belief -- Unifying Sets and Programs via Dependent Types -- Product-Free Lambek Calculus Is NP-Complete -- Games on Multi-stack Pushdown Systems -- Data Privacy for Knowledge Bases -- Fixed Point Theorems on Partial Randomness -- Decidability and Undecidability in Probability Logic -- A Bialgebraic Approach to Automata and Formal Language Theory.

Sommario/riassunto

This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science, LFCS 2009, held in Deerfield Beach, Florida, USA in January 2008. The volume presents 31 revised refereed papers carefully selected by the program committee. All current aspects of logic in computer science are addressed, including constructive mathematics and type theory, logical foundations of programming, logical aspects of computational complexity, logic programming and constraints, automated deduction and interactive theorem proving, logical methods in protocol and program verification and in program specification and extraction, domain theory logics, logical foundations of database theory, equational logic and term rewriting, lambda and combinatory calculi, categorical logic and topological semantics, linear logic, epistemic and temporal logics, intelligent and multiple agent system logics, logics of proof and justification, nonmonotonic reasoning, logic in game theory and social software, logic of hybrid systems, distributed system logics, system design logics, as well as other logics in computer science.