1. Record Nr. UNINA9910768172103321

Titolo	Logical Foundations of Computer Science : International Symposium, LFCS 2009, Deerfield Beach, FL, USA, January 3-6, 2009, Proceedings / / edited by Sergei Artemov, Anil Nerode
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	3-540-92687-9
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XI, 469 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5407
Altri autori (Persone)	ArtemovS. N NerodeAnil <1932->
Disciplina	511.3
Soggetti	Computer science Algorithms Mathematical logic Machine theory Computer arithmetic and logic units Computer science - Mathematics Computer Science Logic and Foundations of Programming Mathematical Logic and Foundations Formal Languages and Automata Theory Arithmetic and Logic Structures Symbolic and Algebraic Manipulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
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 BialgebraicApproach 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.