

1. Record Nr.	UNINA9910522937403321
Autore	Artemov Sergei
Titolo	Logical Foundations of Computer Science : International Symposium, LFCS 2022, Deerfield Beach, FL, USA, January 10–13, 2022, Proceedings // edited by Sergei Artemov, Anil Nerode
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-93100-5
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (386 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 13137
Disciplina	005.1015113
Soggetti	Logic, Symbolic and mathematical Mathematical Logic and Foundations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A Non-Hyperarithmetical Gödel Logic -- Shorten Resolution Proofs Non-Elementarily -- The Isomorphism Problem for FST Injection Structures -- Justification Logic and Type Theory as Formalizations of Intuitionistic Propositional Logic -- Hyperarithmetical Worm Battles -- Parametric Church's Thesis: Synthetic Computability Without Choice -- Constructive and Mechanised Meta-Theory of Intuitionistic Epistemic Logic -- A Parametrized Family of Tversky Metrics Connecting the Jaccard Distance to an Analogue of the Normalized Information Distance -- A Parameterized View on the Complexity of Dependence Logic -- A Logic of Interactive Proofs -- Recursive Rules With Aggregation: A Simple Unified Semantics -- Computational Properties of Partial Non-deterministic Matrices and Their Logics -- Soundness and Completeness Results for LEA and Probability Semantics -- On Inverse Operators in Dynamic Epistemic Logic -- Computability Models Over Categories and Presheaves -- Reducts of Relation Algebras: The Aspects of Axiomatisability and Finite Representability -- Between Turing and Kleene -- Propositional Dynamic Logic With Quantification Over Regular Computation Sequences -- Finite Generation and Presentation Problems for Lambda Calculus and Combinatory Logic -- Exact and Parameterized Algorithms for Read-Once Refutations in Horn

Sommario/riassunto

This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science, LFCS 2022, held in Deerfield Beach, FL, USA, in January 2022. The 23 revised full papers were carefully reviewed and selected from 35 submissions. The scope of the Symposium is broad and includes constructive mathematics and type theory; homotopy type theory; logic, automata, and automatic structures; computability and randomness; logical foundations of programming; logical aspects of computational complexity; parameterized complexity; logic programming and constraints; automated deduction and interactive theorem proving; logical methods in protocol and program verification; logical methods 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; non-monotonic reasoning; logic in game theory and social software; logic of hybrid systems; distributed system logics; mathematical fuzzy logic; system design logics; other logics in computer science.
