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Soggetti	Artificial intelligence Computers Algorithms Mathematical logic Computer science—Mathematics Artificial Intelligence Theory of Computation Algorithm Analysis and Problem Complexity Mathematical Logic and Formal Languages Mathematics of Computing Discrete Mathematics in Computer Science Kongress. Tokio (2009)
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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Tutorials and Invited Talks -- A Characterisation of Definable NP Search Problems in Peano Arithmetic -- Algebraic Valuations as Behavioral Logical Matrices -- Query Answering in Description Logics: The Knots Approach -- Mathematical Logic for Life Science Ontologies -- Recognizability in the Simply Typed Lambda-Calculus -- Logic-Based

Probabilistic Modeling -- Contributed Papers -- Completions of Basic Algebras -- Transformations via Geometric Perspective Techniques Augmented with Cycles Normalization -- Observational Completeness on Abstract Interpretation -- SAT in Monadic Gödel Logics: A Borderline between Decidability and Undecidability -- Learning by Questions and Answers: From Belief-Revision Cycles to Doxastic Fixed Points -- First-Order Linear-Time Epistemic Logic with Group Knowledge: An Axiomatisation of the Monodic Fragment -- On-the-Fly Macros -- Abductive Logic Grammars -- On the Syntax-Semantics Interface: From Convergent Grammar to Abstract Categorical Grammar -- Observational Effort and Formally Open Mappings -- Forcing-Based Cut-Elimination for Gentzen-Style Intuitionistic Sequent Calculus -- Property Driven Three-Valued Model Checking on Hybrid Automata -- Team Logic and Second-Order Logic -- Ludics and Its Applications to Natural Language Semantics -- Spoilt for Choice: Full First-Order Hierarchical Decompositions -- Classic-Like Analytic Tableaux for Finite-Valued Logics -- A Duality for Algebras of Lattice-Valued Modal Logic -- An Independence Relation for Sets of Secrets -- Expressing Extension-Based Semantics Based on Stratified Minimal Models -- Deep Inference in Bi-intuitionistic Logic -- : An Action-Based Logic for Reasoning about Contracts -- Ehrenfeucht-Fraïssé Games on Random Structures -- Sound and Complete Tree-Sequent Calculus for Inquisitive Logic -- The Arrow Calculus as a Quantum Programming Language -- Knowledge, Time, and Logical Omniscience.

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#### Sommario/riassunto

Edited in collaboration with FoLLI, the Association of Logic, Language and Information, this book constitutes the 4th volume of the FoLLI LNAI subline; containing the refereed proceedings of the 16h International Workshop on Logic, Language, Information and Computation, WoLLIC 2009, held in Tokyo, Japan, in June 2009. The 25 revised full papers presented together with six tutorials and invited talks were carefully reviewed and selected from 57 submissions. The papers cover some of the most active areas of research on the frontiers between computation, logic, and linguistics, with particular interest in cross-disciplinary topics. Typical areas of interest are: foundations of computing and programming; novel computation models and paradigms; broad notions of proof and belief; formal methods in software and hardware development; logical approach to natural language and reasoning; logics of programs, actions and resources; foundational aspects of information organization, search, flow, sharing, and protection.

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