

1. Record Nr.	UNISA996465798003316
Titolo	Logic and Its Applications [[electronic resource] ] : Third Indian Conference, ICLA 2009, Chennai, India, January 7-11, 2009, Proceedings // edited by R. Ramanujam, Sundar Sarukkai
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	3-540-92701-8
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (X, 269 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 5378
Classificazione	54.72 54.51 54.71 DAT 540f DAT 706f SS 4800
Disciplina	511.3
Soggetti	Artificial intelligence Computer programming Programming languages (Electronic computers) Computers Algorithms Mathematical logic Artificial Intelligence Programming Techniques Programming Languages, Compilers, Interpreters Theory of Computation Algorithm Analysis and Problem Complexity Mathematical Logic and Formal Languages Kongress. Madras (2009)
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	Decisions, Actions, and Games: A Logical Perspective -- Machine

Checking Proof Theory: An Application of Logic to Logic -- Some Second Order Set Theory -- Connection Matrices for MSOL-Definable Structural Invariants -- Knowledge, Games and Tales from the East -- A Para Consistent Fuzzy Logic -- From Philosophical to Industrial Logics -- Game Quantification Patterns -- Extensive Questions -- An Analytic Logic of Aggregation -- Instantial Relevance in Polyadic Inductive Logic -- Algebraic Study of Lattice-Valued Logic and Lattice-Valued Modal Logic -- A General Setting for the Pointwise Investigation of Determinacy -- A Two-Dimensional Hybrid Logic of Subset Spaces -- A Unified Framework for Certificate and Compilation for QBF -- Towards Decidability of Conjugacy of Pairs and Triples -- Gautama – Ontology Editor Based on Nyaya Logic -- Formal Definitions of Reason Fallacies to Aid Defect Exploration in Argument Gaming -- The Art of Non-asserting: Dialogue with N?g?rjuna.

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Sommario/riassunto

Edited in collaboration with FoLLI, the Association of Logic, Language and Information, this book constitutes the 5th volume of the FoLLI LNAI subline. It contains the refereed proceedings of the Third Indian Conference on Logic and Its Applications, ICLA 2009, held in Chennai, India, in January 2009. The 12 revised full papers presented together with 7 invited lectures were carefully reviewed and selected from numerous submissions. The papers present current research in all aspects of formal logic. They address in detail: algebraic logic and set theory, combinatorics and philosophical logic, modal logics with applications to computer science and game theory, and connections between ancient logic systems and modern systems.

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