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Soggetti	Machine theory Computer science - Mathematics Discrete mathematics Computer science Algorithms Artificial intelligence Formal Languages and Automata Theory Discrete Mathematics in Computer Science Computer Science Logic and Foundations of Programming Mathematics of Computing Artificial Intelligence
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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Invited Talks -- The Equational Approach to Contrary-to-duty Obligations -- A Survey of the Data Complexity of Consistent Query Answering under Key Constraints -- Regular Articles -- Arguments Using Ontological and Causal Knowledge -- Reasoning on Secrecy Constraints under Uncertainty to Classify Possible Actions -- An AIF-Based Labeled Argumentation Framework -- On the Semantics of Partially Ordered Bases -- The Structure of Oppositions in Rough Set Theory and Formal Concept Analysis - Toward a New Bridge between the Two Settings -- Enriching Taxonomies of Place Types Using Flickr -- Hintikka-Style Semantic Games for Fuzzy Logics -- A Finite

Axiomatization of Conditional Independence and Inclusion Dependencies -- Guard Independence and Constraint-Preserving Snapshot Isolation -- Implication and Axiomatization of Functional Constraints on Patterns with an Application to the RDF Data Model -- View-Based Tree-Language Rewritings for XML -- EHC: Non-parametric Editing by Finding Homogeneous Clusters -- A Logic for Specifying Stochastic Actions and Observations -- Belief Revision in Structured Probabilistic Argumentation -- A Multi-granular Database Model -- Optimizing Computation of Repairs from Active Integrity Constraints -- Belief Merging in Dynamic Logic of Propositional Assignments -- Incremental Maintenance of Aggregate Views -- Towards an Approximative Ontology-Agnostic Approach for Logic Programs.

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## Sommario/riassunto

This book constitutes the proceedings of the 8th International Symposium on Foundations of Information and Knowledge Systems, FoKS 2014, held in Bordeaux, France, in March 2014. The 14 revised full papers presented together with 5 revised short papers and two invited talks were carefully reviewed and selected from 52 submissions. The papers address various topics such as database design, dynamics of information, information fusion, integrity and constraint management, intelligent agents, knowledge discovery and information retrieval, knowledge representation, reasoning and planning, logics in databases and AI, mathematical foundations, security in information and knowledge Systems, semi-structured data and XML, social computing, the semantic Web and knowledge management, as well as the WWW.

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