

1. Record Nr.	UNINA9910483038703321
Titolo	Foundations of Information and Knowledge Systems : 4th International Symposium, FolKS 2006, Budapest, Hungary, February 14-17, 2006, Proceedings // edited by Stephen J. Hegner
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2006
ISBN	3-540-31784-8
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (X, 331 p.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI, , 2946-1642 ; ; 3861
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Disciplina	004
Soggetti	Database management Computer science Computer science - Mathematics Discrete mathematics Information storage and retrieval systems User interfaces (Computer systems) Human-computer interaction Artificial intelligence Database Management Computer Science Logic and Foundations of Programming Discrete Mathematics in Computer Science Information Storage and Retrieval User Interfaces and Human Computer Interaction Artificial Intelligence
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	Invited Presentation -- The Semijoin Algebra -- Regular Papers -- Equational Constraint Solving Via a Restricted Form of Universal Quantification -- Modeling the Evolution of Objects in Temporal Information Systems -- Controlled Query Evaluation with Open Queries for a Decidable Relational Submodel -- Iterative Modification and

Incremental Evaluation of Preference Queries -- On the Number of Independent Functional Dependencies -- Arity and Alternation: A Proper Hierarchy in Higher Order Logics -- Solving Abduction by Computing Joint Explanations: Logic Programming Formalization, Applications to P2P Data Integration, and Complexity Results -- The Nested List Normal Form for Functional and Multivalued Dependencies -- Axiomatizing Functional Dependencies for XML with Frequencies -- Guarded Open Answer Set Programming with Generalized Literals -- Reasoning Support for Expressive Ontology Languages Using a Theorem Prover -- Consistency Checking Algorithms for Restricted UML Class Diagrams -- Some Contributions to the Minimum Representation Problem of Key Systems -- On Multivalued Dependencies in Fixed and Undetermined Universes -- Preference-Based Query Tuning Through Refinement/Enlargement in a Formal Context -- Processing Ranked Queries with the Minimum Space -- Hybrid Minimal Spanning Tree and Mixture of Gaussians Based Clustering Algorithm.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th International Symposium on Foundations of Information and Knowledge Systems, held in February 2006. The 14 revised full papers presented together with three revised short papers and one invited paper were carefully reviewed and selected from 54 submissions. Among the topics covered are the theoretical foundations of information and knowledge systems, as well as mathematical fields such as discrete mathematics, combinatorics, logics and finite model theory, and applications thereof for research on database and knowledge base theory.
