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Soggetti	Computers Database management Computer logic Computer science—Mathematics Information storage and retrieval User interfaces (Computer systems) Theory of Computation Database Management Logics and Meanings of Programs Discrete Mathematics in Computer Science Information Storage and Retrieval User Interfaces and Human Computer Interaction
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talks -- Hypergraph Transversals -- Abstract State Machines: An Overview of the Project -- Regular Papers -- Database Repair by Signed Formulae -- Simplification of Integrity Constraints for Data Integration -- On the Security of Individual Data -- Implementing Ordered Choice Logic Programming Using Answer Set Solvers -- Skyline

Cardinality for Relational Processing -- Query Answering and Containment for Regular Path Queries under Distortions -- Weak Functional Dependencies in Higher-Order Datamodels -- Reasoning about Functional and Multi-valued Dependencies in the Presence of Lists -- The Relative Complexity of Updates for a Class of Database Views -- Equivalence of OLAP Dimension Schemas -- A New Approach to Belief Modeling -- Computer-Oriented Calculi of Sequent Trees -- On Updates of Logic Programs: A Properties-Based Approach -- Minimal Keys in Higher-Order Datamodels -- Similarity Relational Calculus and Its Reduction to a Similarity Algebra -- Challenges in Fixpoint Computation with Multisets -- Towards a Generalized Interaction Scheme for Information Access -- Plan Databases: Model and Algebra.

Sommario/riassunto

This volume contains the papers presented at the 3rd International Symposium on Foundations of Information and Knowledge Systems (FolKS2004), which was held in Castle Wilhelminenberg, Vienna, Austria, from February 17th to 20th, 2004. FolKS is a biennial event focussing on theoretical foundations of information and knowledge systems. It aims at bringing together researchers working on the theoretical foundations of information and knowledge systems and attracting researchers working in mathematical fields such as discrete mathematics, combinatorics, logics, and finite model theory who are interested in applying their theories to research on database and knowledge base theory. FolKS took up the tradition of the conference series Mathematical Fundamentals of Database Systems (MFDBS) which enabled East–West collaboration in the field of database theory. The first FolKS symposium was held in Burg, Spreewald (Germany) in 2000, and the second FolKS symposium was held in Salza Castle (Germany) in 2002. Former MFDBS conferences were held in Dresden (Germany) in 1987, Visegrád (Hungary) in 1989, and in Rostock (Germany) in 1991. Proceedings of these previous events were published by Springer-Verlag as volumes 305, 364, 495, 1762, and 2284 of the LNCS series, respectively. In addition the FolKS symposium was intended to be a forum for intensive discussions. For this reason the time slots for long and short contributions were 50 and 30 minutes, respectively, followed by 20 and 10 minutes for discussions, respectively. Furthermore, participants were asked in advance to prepare to act as correspondents for the contributions of other authors. There were also special sessions for the presentation and discussion of open research problems.
