1.	Record Nr.	UNINA9910144208103321
	Titolo	Foundations of Information and Knowledge Systems : Third International Symposium, FoIKS 2004, Wilhelminenburg Castle, Austria, February 17-20, 2004, Proceedings / / edited by Dietmar Seipel, Jose M. Turull-Torres
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
	ISBN	1-280-30684-X 9786610306848 3-540-24627-4
	Edizione	[1st ed. 2004.]
	Descrizione fisica	1 online resource (X, 324 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2942
	Disciplina	004
	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
	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 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 onFoundationsofInformationandKnowledgeSystems (FoIKS2004),whichwas held in Castle Wilhelminenberg, Vienna, Austria, from February 17th to 20th, 2004. FoIKS 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 ?elds such as discrete mathematics, c- binatorics, logics, and ?nite model theory who are interested in applying their theories to research on database and knowledge base theory. FoIKS took up the tradition of the conference series Mathematical Fun- mentals of Database Systems (MFDBS) which enabled East–West collaboration in the ?eld of database theory. The ?rst FoIKS symposium was held in Burg, Spreewald (Germany) in 2000, and the second FoIKS symposium was held in SalzauCastle(Germany) in2002.FormerMFDBSconferenceswereheldinDr- den (Germany) in 1987, Visegr´ad (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 FoIKS 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.