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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Low Discrepancy Allocation of Two-Dimensional Data -- A Family of Nested Query Languages for Semi-structured Data -- Decomposition of Database Classes under Path Functional Dependencies and Onto Constraints -- Imprecision and User Preferences in Multimedia Queries: A Generic Algebraic Approach -- Maximal Expansions of Database Updates -- Error-Correcting Keys in Relational Databases -- Extension of the Relational Algebra to Probabilistic Complex Values -- Persistent Turing Machines as a Model of Interactive Computation -- On Interactions of Cardinality Constraints, Key, and Functional

Dependencies -- Capturing LOGSPACE over Hereditarily-Finite Sets -- Non-situation Calculus and Database Systems -- Dealing with Modification Requests During View Updating and Integrity Constraint Maintenance -- Making Decision Trees More Accurate by Losing Information -- High-Level Logic Programming -- Clausal Deductive Databases and a General Framework for Semantics in Disjunctive Deductive Databases -- Partial Evaluations in a Set-Theoretic Query Language for the WWW -- Minimum Matrix Representation of Some Key System -- Reflective Relational Machines Working on Homogeneous Databases.

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#### Sommario/riassunto

This volume contains the papers presented at the 'First International Symposium on Foundations of Information and Knowledge Systems' (FoIKS 2000), which was held in Burg, Germany from February 14th to 17th, 2000. FoIKS is intended to be a biannual event focussing on the theoretical foundations of information and knowledge systems. It aims to take up the old tradition of the conference series 'Mathematical Fundamentals of Database Systems' (MFDBS) which encouraged East-West collaboration in the field of database theory. Former MFDBS conferences were held in Dresden in 1987 (Springer LNCS 305, edited by Joachim Biskup, János Demetrovics, Jan Paredaens, and Bernhard Thalheim), in Visegrád in 1989 (Springer LNCS 364, edited by János Demetrovics and Bernhard Thalheim), and in Rostock in 1991 (Springer LNCS 495, edited by Bernhard Thalheim, János Demetrovics, and Hans-Detlef Gerhard). Another goal of the MFDBS conference series has always been to attract 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 knowledgebase theory. To that end, FoIKS takes up the tradition of providing a forum for mathematical foundations in a specific branch of computer science. A first attempt to reestablish the MFDBS tradition was made in 1995 with a follow-up workshop 'Semantics in Databases' to ICDT (Springer LNCS 1358, edited by Bernhard Thalheim and Leonid Libkin).

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