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   Disciplina   005.74

   Soggetti   Data structures (Computer science)
   Database management
   Logic, Symbolic and mathematical
   Information storage and retrieval
   Application software
   Algorithms
   Data Structures and Information Theory
   Database Management
   Mathematical Logic and Formal Languages
   Information Storage and Retrieval
   Information Systems Applications (incl. Internet)
   Algorithm Analysis and Problem Complexity

   Lingua di pubblicazione   Inglese

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   Livello bibliografico   Monografia

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   Nota di bibliografia   Includes bibliographical references at the end of each chapters and index.

   Nota di contenuto   Expressive Power of SQL -- Query Evaluation via Tree-Decompositions -- Scalar Aggregation in FD-Inconsistent Databases -- On Decidability and Complexity of Description Logics with Uniqueness Constraints -- Expressiveness Issues and Decision Problems for Active Database Event Queries -- A Theory of Transactions on Recoverable Search Trees -- Minimizing View Sets without Losing Query-Answering Power -- Cost Based Data Dissemination in Broadcast Networks -- Parallelizing the Data Cube -- Asymptotically Optimal Declustering Schemes for Range Queries -- Flexible Data Cubes for Online Aggregation -- Mining for

Empty Rectangles in Large Data Sets -- FUN: An Efficient Algorithm for Mining Functional and Embedded Dependencies -- Axiomatization of Frequent Sets -- On Answering Queries in the Presence of Limited Access Patterns -- The Dynamic Complexity of Transitive Closure Is in DynTC° -- Query Languages for Constraint Databases: First-Order Logic, Fixed-Points, and Convex Hulls -- A Semi-monad for Semi-structured Data (ICDT Version) -- Algebraic Rewritings for Optimizing Regular Path Queries -- Why and Where: A Characterization of Data Provenance -- Subsumption for XML Types -- Towards Aggregated Answers for Semistructured Data -- Orthogonal Range Queries in OLAP -- Reasoning about Summarizability in Heterogeneous Multidimensional Schemas -- Estimating Range Queries Using Aggregate Data with Integrity Constraints: A Probabilistic Approach -- Constraint-Based Clustering in Large Databases -- On the Surprising Behavior of Distance Metrics in High Dimensional Space -- On Optimizing Nearest Neighbor Queries in High-Dimensional Data Spaces.

Sommario/riassunto	This book constitutes the refereed proceedings of the 8th International Conference on Database Theory, ICDT 2001, held in London, UK, in January 2001. The 26 revised full papers presented together with two invited papers were carefully reviewed and selected from 75 submissions. All current issues on database theory and the foundations of database systems are addressed. Among the topics covered are database queries, SQL, information retrieval, database logic, database mining, constraint databases, transactions, algorithmic aspects, semi-structured data, data engineering, XML, term rewriting, clustering, etc.