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Soggetti	Data structures (Computer science) Information theory Database management Computer science Machine theory Artificial intelligence Application software Data Structures and Information Theory Database Management Theory of Computation Formal Languages and Automata Theory Artificial Intelligence Computer and Information Systems Applications
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Lectures -- Consistent Query Answering: Five Easy Pieces -- Ask a Better Question, Get a Better Answer A New Approach to Private Data Analysis -- Beauty and the Beast: The Theory and Practice of Information Integration -- Information Integration and Peer to Peer -- Approximate Data Exchange -- Determinacy and Rewriting of Conjunctive Queries Using Views: A Progress Report -- Compact

Samples for Data Dissemination -- Privacy in GLAV Information Integration -- Axiomatizations for XML -- Unlocking Keys for XML Trees -- Characterization of the Interaction of XML Functional Dependencies with DTDs -- Axiomatizing the Logical Core of XPath 2.0 -- Expressive Power of Query Languages -- Query Evaluation on a Database Given by a Random Graph -- The Limits of Querying Ontologies -- Incompleteness, Inconsistency, and Uncertainty -- Complexity of Consistent Query Answering in Databases Under Cardinality-Based and Incremental Repair Semantics -- World-Set Decompositions: Expressiveness and Efficient Algorithms -- On the Expressiveness of Implicit Provenance in Query and Update Languages -- Trajectory Databases: Data Models, Uncertainty and Complete Query Languages -- XML Schemas and Typechecking -- Complexity of Typechecking XML Views of Relational Databases -- Exact XML Type Checking in Polynomial Time -- Optimizing Schema Languages for XML: Numerical Constraints and Interleaving -- Stream Processing and Sequential Query Processing -- Database Query Processing Using Finite Cursor Machines -- Constant-Memory Validation of Streaming XML Documents Against DTDs -- Ranking -- Preferentially Annotated Regular Path Queries -- Combining Incompleteness and Ranking in Tree Queries -- XML Update and Query -- Structural Recursion on Ordered Trees and List-Based Complex Objects -- Combining Temporal Logics for Querying XML Documents -- Commutativity Analysis in XML Update Languages -- Query Containment -- Containment of Conjunctive Queries over Databases with Null Values -- Some Algorithmic Improvements for the Containment Problem of Conjunctive Queries with Negation.

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Database Theory, ICDT 2007, held in Spain in January 2007. The papers are organized in topical sections on information integration and peer to peer, axiomatizations for XML, expressive power of query languages, incompleteness, inconsistency, and uncertainty, XML schemas and typechecking, stream processing and sequential query processing, ranking, XML update and query, as well as query containment.
