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Disciplina	005.74
Soggetti	Data structures (Computer science) Database management Computer communication systems Information storage and retrieval Application software Computers and civilization Data Structures and Information Theory Database Management Computer Communication Networks Information Storage and Retrieval Information Systems Applications (incl. Internet) Computers and Society
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Papers -- Converged Services: A Hidden Challenge for the Web Services Paradigm -- GRIDS, Databases, and Information Systems Engineering Research -- Security and Privacy for Web Databases and

Services -- Distributed, Mobile, and Peer-to-Peer Database Systems --  
Content-Based Routing of Path Queries in Peer-to-Peer Systems --  
Energy-Conserving Air Indexes for Nearest Neighbor Search --  
MobiEyes: Distributed Processing of Continuously Moving Queries on  
Moving Objects in a Mobile System -- Data Mining and Knowledge  
Discovery -- DBDC: Density Based Distributed Clustering -- Iterative  
Incremental Clustering of Time Series -- LIMBO: Scalable Clustering of  
Categorical Data -- Trustworthy Database Systems -- A Framework for  
Efficient Storage Security in RDBMS -- Beyond 1-Safety and 2-Safety for  
Replicated Databases: Group-Safety -- A Condensation Approach to  
Privacy Preserving Data Mining -- Innovative Query Processing  
Techniques for XML Data -- Efficient Query Evaluation over  
Compressed XML Data -- XQzip: Querying Compressed XML Using  
Structural Indexing -- HOPI: An Efficient Connection Index for Complex  
XML Document Collections -- Data and Information Management on  
the Web -- Efficient Distributed Skylining for Web Information Systems  
-- Query-Customized Rewriting and Deployment of DB-to-XML  
Mappings -- LexEQUAL: Supporting Multiscript Matching in Database  
Systems -- Innovative Modelling Concepts for Spatial and Temporal  
Databases -- A Model for Ternary Projective Relations between Regions  
-- Computing and Handling Cardinal Direction Information -- A Tale of  
Two Schemas: Creating a Temporal XML Schema from a Snapshot  
Schema with ?XSchema -- Query Processing Techniques for Spatial  
Databases -- Spatial Queries in the Presence of Obstacles -- NNH:  
Improving Performance of Nearest-Neighbor Searches Using  
Histograms -- Clustering Multidimensional Extended Objects to Speed  
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Processing Unions of Conjunctive Queries with Negation under Limited  
Access Patterns -- Projection Pushing Revisited -- On Containment of  
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Conditional Axis Relations -- Advanced Query Processing and  
Optimization -- Declustering Two-Dimensional Datasets over MEMS-  
Based Storage -- Self-tuning UDF Cost Modeling Using the Memory-  
Limited Quadtree -- Distributed Query Optimization by Query Trading  
-- Query Processing Techniques for Stream Data -- Sketch-Based  
Multi-query Processing over Data Streams -- Processing Data-Stream  
Join Aggregates Using Skimmed Sketches -- Joining Punctuated  
Streams -- Analysis and Validation Techniques for Data and Schemas  
-- Using Convolution to Mine Obscure Periodic Patterns in One Pass --  
CUBE File: A File Structure for Hierarchically Clustered OLAP Cubes --  
Efficient Schema-Based Revalidation of XML -- Multimedia and Quality-  
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Quality Guarantees -- Efficient Similarity Search for Hierarchical Data in  
Large Databases -- QuaSAQ: An Approach to Enabling End-to-End QoS  
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Sliding Windows over Online Data Streams -- A Framework for Access  
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Information and Approximate Queries -- Spatiotemporal Compression  
Techniques for Moving Point Objects -- Non-contiguous Sequence  
Pattern Queries -- Industrial Papers -- Mining Extremely Skewed  
Trading Anomalies -- Flexible Integration of Molecular-Biological  
Annotation Data: The GenMapper Approach -- Demo Papers -- Meta-  
SQL: Towards Practical Meta-Querying -- A Framework for Context-  
Aware Adaptable Web Services -- Aggregation of Continuous  
Monitoring Queries in Wireless Sensor Networking Systems -- eVitae:  
An Event-Based Electronic Chronicle -- CAT: Correct Answers of  
Continuous Queries Using Triggers -- Hippo: A System for Computing

Consistent Answers to a Class of SQL Queries -- An Implementation of P3P Using Database Technology -- XQBE: A Graphical Interface for XQuery Engines -- P2P-DIET: One-Time and Continuous Queries in Super-Peer Networks -- HEAVEN: A Hierarchical Storage and Archive Environment for Multidimensional Array Database Management Systems -- OGSA-DQP: A Service for Distributed Querying on the Grid -- T-Araneus: Management of Temporal Data-Intensive Web Sites -- ?-Synopsis: A System for Run-Time Management of Remote Synopses -- AFFIC: A Foundation for Index Comparisons -- Spatial Data Server for Mobile Environment.

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## Sommario/riassunto

The 9th International Conference on Extending Database Technology, EDBT 2004, was held in Heraklion, Crete, Greece, during March 14–18, 2004. The EDBT series of conferences is an established and prestigious forum for the exchange of the latest research results in data management. Held every two years in an attractive European location, the conference provides unique opportunities for database researchers, practitioners, developers, and users to explore new ideas, techniques, and tools, and to exchange experiences. The previous events were held in Venice, Vienna, Cambridge, Avignon, Valencia, Konstanz, and Prague. EDBT 2004 had the theme “new challenges for database technology,” with the goal of encouraging researchers to take a greater interest in the current exciting technological and application advancements and to devise and address new research and development directions for database technology. From its early days, database technology has been challenged and advanced by new uses and applications, and it continues to evolve along with application requirements and hardware advances. Today’s DBMS technology faces yet several new challenges. Technological trends and new computation paradigms, and applications such as pervasive and ubiquitous computing, grid computing, bioinformatics, trust management, virtual communities, and digital asset management, to name just a few, require database technology to be deployed in a variety of environments and for a number of different purposes. Such an extensive deployment will also require trustworthy, resilient database systems, as well as easy-to-manage and flexible ones, to which we can entrust our data in whatever form they are.

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