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Nota di contenuto	Invited Papers -- Hyperdatabases: Infrastructure for the Information Space -- DAML+OIL: A Reason-able Web Ontology Language -- Ambient Intelligence: Plenty of Challenges by 2010 -- Query Transformation -- An Approach to Integrating Query Refinement in SQL -- Querying with Intrinsic Preferences -- Rewriting Unions of General Conjunctive Queries Using Views -- Data Mining -- Profit Mining: From

Patterns to Actions -- Cut-and-Pick Transactions for Proxy Log Mining -- Composition of Mining Contexts for Efficient Extraction of Association Rules -- XML -- Designing Functional Dependencies for XML -- On Efficient Matching of Streaming XML Documents and Queries -- Efficient Complex Query Support for Multiversion XML Documents -- Advanced Query Processing -- Approximate Processing of Multiway Spatial Joins in Very Large Databases -- Indexing Values in Continuous Field Databases -- Efficient and Adaptive Processing of Multiple Continuous Queries -- Moving Objects -- The Geometry of Uncertainty in Moving Objects Databases -- Efficient Indexing of Spatiotemporal Objects -- Dynamic Queries over Mobile Objects -- Industrial and Applications Track—I -- Semantic Analysis of Business Process Executions -- An Introduction to the e-XML Data Integration Suite -- Spatio-temporal Information Systems in a Statistical Context -- Distributed Data -- A Systematic Approach to Selecting Maintenance Policies in a Data Warehouse Environment -- Efficient OLAP Query Processing in Distributed Data Warehouses -- Incremental Maintenance of Schema-Restructuring Views -- Distributed Processing -- Coupling of FDBS and WfMS for Integrating Database and Application Systems: Architecture, Complexity, Performance -- Optimizing Scientific Databases for Client Side Data Processing -- Supporting Efficient Parametric Search of E-Commerce Data: A Loosely-Coupled Solution -- Advanced Querying -- Divide-and-Conquer Algorithm for Computing Set Containment Joins -- Universal Quantification in Relational Databases: A Classification of Data and Algorithms -- Efficient Algorithms for Mining Inclusion Dependencies -- XML—Advanced Querying -- The Index-Based XXL Search Engine for Querying XML Data with Relevance Ranking -- Tree Pattern Relaxation -- Schema-Driven Evaluation of Approximate Tree-Pattern Queries -- Fundamental Query Services -- A Robust and Self-tuning Page-Replacement Strategy for Spatial Database Systems -- Broadcast-Based Data Access in Wireless Environments -- Bridging the Gap between Response Time and Energy-Efficiency in Broadcast Schedule Design -- Estimation/Histograms -- Estimating Answer Sizes for XML Queries -- Selectivity Estimation for Spatial Joins with Geometric Selections -- A Framework for the Physical Design Problem for Data Synopses -- Aggregation -- Temporal Aggregation over Data Streams Using Multiple Granularities -- ProPolyne: A Fast Wavelet-Based Algorithm for Progressive Evaluation of Polynomial Range-Sum Queries -- Aggregate Processing of Planar Points -- Industrial and Applications Track—II -- TDB: A Database System for Digital Rights Management -- Content Schema Evolution in the CoreMedia® Content Application Platform CAP -- Gene Expression Data Management: A Case Study -- Demo Paper Track -- With HEART Towards Response Time Guarantees for Message-Based e-Services -- Cobra: A Content-Based Video Retrieval System -- Navigating Virtual Information Sources with Know-ME -- XQuery by the Book: The IPSI XQuery Demonstrator -- The ORDB-Based SFB-501-Reuse-Repository -- Building Dynamic Market Places Using HyperQueries -- The ApproXML Tool Demonstration -- A Database-Supported Workbench for Information Fusion: InFuse -- STYX: Connecting the XML Web to the World of Semantics -- UMiner: A Data Mining System Handling Uncertainty and Quality -- Managing Web Sites with OntoWebber -- Management of Dynamic Location Information in DOMINO -- Situation Aware Mobile Access to Digital Libraries.

Sommario/riassunto

The Eighth International Conference on Extending Database Technology, EDBT 2002, was held in Prague, Czech Republic, March 25–27, 2002. It marks the 50th anniversary of Charles University’s Faculty of Mathematics and Physics and is the most recent in a series of

conferences dedicated to the dissemination and exchange of the latest advances in data management. Previous conferences occurred in Konstanz, Valencia, Avignon, Cambridge, Vienna, and Venice. The topical theme of this year’s conference is Data Management in the New Millennium, which encourages the community to see beyond the management of massive databases by conventional database management systems and to extend database technology to support new services and application areas. The intention is to spur greater interest in more integrated solutions to user problems, which often implies the consideration of data management issues in entire information systems infrastructures. There is data (almost) everywhere, and data access is needed (almost) always and everywhere. New technologies, services, and app- cations that involve the broader notion of data management are emerging more rapidly than ever, and the database community has much to o?er. The call for papers attracted numerous submissions, including 207 research papers, which is a new record for EDBT. The program committee selected 36 research papers, 6 industrial and applications papers, 13 software demos, and 6 tutorials for presentation at the conference. In addition, the conference program includes three keynote speeches, by Jari Ahola, Ian Horrocks, and Hans-J¨org Schek, and a panel.