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Nota di contenuto	Keynote Speech -- Building an Extensible XQuery Engine: Experiences with Galax (Extended Abstract) -- XQuery Processing -- A Light but Formal Introduction to XQuery -- XML Query Processing Using a Schema-Based Numbering Scheme -- Implementing Memoization in a Streaming XQuery Processor -- Searching, Ranking, and Mapping XML Documents -- XQuery Processing with Relevance Ranking -- Information Preservation in XML-to-Relational Mappings -- A Signature-Based Approach for Efficient Relationship Search on XML

Data Collections -- XML Constraints Checking and Correcting -- Correctors for XML Data -- Incremental Constraint Checking for XML Documents -- EReX: A Conceptual Model for XML -- XML Processing -- A Runtime System for XML Transformations in Java -- Teaching Relational Optimizers About XML Processing -- Adjustable Transaction Isolation in XML Database Management Systems -- Clustering, Indexing, Statistics -- Fractional XSketch Synopses for XML Databases -- Flexible Workload-Aware Clustering of XML Documents -- XIST: An XML Index Selection Tool.

Sommario/riassunto

Modern database systems enhance the capabilities of traditional database systems by their ability to handle any kind of data, including text, image, audio, and video. Today, databasesystemsareparticularlyrelevanttotheWeb, astheycanprovideinputtocontent generators for Web pages, and can handle queries issued over the Internet. The eXtensible Markup Language (XML) is used in applications running the gamut from content management through publishing to Web services and e-commerce. It is used as the universal communication language for exchanging music and graphics as well as purchase orders and technical documentation. As database systems increasingly talk to each other over the Web, there is a fa- growingdesiretouseXMLasthestandardexchangeformat. Asaresult,manyrelational database systems can export data as XML documents and import data from XML d- uments and provide query and update capabilities for XML data. In addition, so called native XML database and integration systems are appearing on the database market, whose claim is to be especially tailored to storing, maintaining, and easily accessing XML documents. After the huge success of the ?rst XML Database Symposium (XSym 2003) last year in Berlin (already then in conjunction withVLDB) it was decided to establish this symposiumasanannualeventthatissupposedtotakeplaceasanintegralpart ofVLDB. Thegoalofthissymposiumistoprovideahigh-qualityplatformforthepresentationand discussion of new research results and system developments. It is targeted at scientists, practitioners, vendors and users of XML and database technologies.