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Nota di contenuto	XML–Relational DBMS -- XML-to-SQL Query Translation Literature: The State of the Art and Open Problems -- Searching for Efficient XML-to-Relational Mappings -- A Virtual XML Database Engine for Relational Databases -- XML Query Processing -- Cursor Management for XML Data -- Three Cases for Query Decorrelation in XQuery -- A DTD Graph Based XPath Query Subsumption Test -- Systems and Tools -- PowerDB-XML: A Platform for Data–Centric and Document–Centric XML Processing -- An XML Repository Manager for Software Maintenance and Adaptation -- XViz: A Tool for Visualizing XPath Expressions --

XML Access Structures -- Tree Signatures for XML Querying and Navigation -- The Collection Index to Support Complex Approximate Queries -- Finding ID Attributes in XML Documents -- Stream Processing and Updates -- XML Stream Processing Quality -- Representing Changes in XML Documents Using Dimensions -- Updating XQuery Views Published over Relational Data: A Round-Trip Case Study -- Design Issues -- Repairs and Consistent Answers for XML Data with Functional Dependencies -- A Redundancy Free 4NF for XML -- Supporting XML Security Models Using Relational Databases: A Vision.

Sommario/riassunto

The Extensible Markup Language (XML) is playing an increasingly important role in the exchange of a wide variety of data on the Web and elsewhere. The database c- munity is interested in XML because it can be used to represent a variety of data f- mats originating in different kinds of data repositories while providing structure and the possibility to add type information. The theme of this symposium is the combination of database and XML te- nologies. Today, we see growing interest in using these technologies together for many Web-based and database-centric applications. XML is being used to publish data from database systems on the Web by providing input to content generators for Web pages, and database systems are increasingly being used to store and query XML data, often by handling queries issued over the Internet. As database systems incre- ingly start talking to each other over the Web, there is a fast-growing interest in using XML as the standard exchange format for distributed query processing. As a result, many relational database systems export data as XML documents, import data from XML documents, provide query and update capabilities for XML data. In addition, so-called native XML database and integration systems are appearing on the database market, and it’s claimed that they are especially tailored to store, maintain and easily access XML documents.