

**INFORMATION  
BROKERING ACROSS  
HETEROGENEOUS  
DIGITAL DATA  
A Metadata-based  
Approach**

**by  
Vipul Kashyap  
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# Information Brokering Across Heterogeneous Digital Data A Metadata Based Appro

**Richard Y. Wang, Mostapha Ziad, Yang  
W. Lee**





## **Information Brokering Across Heterogeneous Digital Data A Metadata Based Appro:**

**Information Brokering Across Heterogeneous Digital Data** Vipul Kashyap, Amit P. Sheth, 2005-12-11 Information intermediation is the foundation stone of some of the most successful Internet companies and is perhaps second only to the Internet Infrastructure companies On the heels of information integration and interoperability this book on information brokering discusses the next step in information interoperability and integration The emerging Internet economy based on burgeoning B2B and B2C trading will soon demand semantics based information intermediation for its feasibility and success B2B ventures are involved in the rationalization of new vertical markets and construction of domain specific product catalogs This book provides approaches for re use of existing vocabularies and domain ontologies as a basis for this rationalization and provides a framework based on inter ontology interoperation Infrastructural trade offs that identify optimizations in performance and scalability of web sites will soon give way to information based trade offs as alternate rationalization schemes come into play and the necessity of interoperating across these schemes is realized Information Brokering Across Heterogeneous Digital Data s intended readers are researchers software architects and CTOs advanced product developers dealing with information intermediation issues in the context of e commerce B2B and B2C information technology professionals in various vertical markets e g geo spatial information medicine auto and all librarians interested in information brokering

*Cooperative Information Agents III* Matthias Klusch, Onn M. Shehory, Gerhard Weiß, 2003-07-31 This book constitutes the refereed proceedings of the Third International Workshop on Cooperative Information Systems CIA 99 held in Uppsala Sweden in July August 1999 The 16 revised full papers presented were carefully reviewed and selected from a total of 46 submissions Also included are ten invited contributions by leading experts The volume is divided in sections on information discovery and management on the Internet information agents on the Internet prototypes systems and applications communication and collaboration mobile information agents rational information agents for electronic business service mediation and negotiation and adaptive personal assistance

Conceptual Modeling for Advanced Application Domains Shan Wang, Katsumi Tanaka, Shuigeng Zhou, Tok Wang Ling, Jihong Guan, Dongqing Yang, Fabio Grandi, Eleni Mangina, Il-Yeol Song, Heinrich C. Mayr, 2005-01-14 This book constitutes the refereed joint proceedings of six international workshops held in conjunction with the 23rd International Conference on Conceptual Modeling ER 2004 in Shanghai China in November 2004 The 56 revised full papers presented were carefully reviewed and selected from 163 submissions The papers are organized in topical sections on geographical conceptual modeling spatial storage indexing and data consistency spatial representation and spatial services spatial queries and retrieval Web information integration Web information mining conceptual models for Web information Web information systems and Webservices systems evolution support in conceptual modeling temporal and evolution aspects in Internat based information systems schema evolution and versioning in data management conceptual modeling of agents agents applications digital government systems digital government technologies



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data processing applications use data with considerably less structure and much less precise queries than traditional database systems. Examples are multimedia data like images or videos that offer query by example search, product catalogs that provide users with preference based search, scientific data records from observations or experimental analyses such as biochemical and medical data or XML documents that come from heterogeneous data sources on the Web or in intranets and thus does not exhibit a global schema. Such data can neither be ordered in a canonical manner nor meaningfully searched by precise database queries that would return exact matches. This novel situation is what has given rise to similarity searching also referred to as content based or similarity retrieval. The most general approach to similarity search still allowing construction of index structures is modeled in metric space. In this book Prof. Zuzula and his co-authors provide the first monograph on this topic describing its theoretical background as well as the practical search tools of this innovative technology.

*Service-Oriented Computing -- ICSOC 2003* Maria E. Orlowska, Sanjiva Weerawarana, Michael P.

Papazoglou, Jian Yang, 2003-12-01 This book constitutes the refereed proceedings of the First International Conference on Service Oriented Computing ICSOC 2003 held in Trento Italy in December 2003. The 38 revised full papers presented were carefully reviewed and selected from 181 submissions. The papers are organized in topical sections on service description, service composition, quality of service, models, service personalization, service semantics, business processes and transactions, business collaborations, service request and coordination, service security and reliability, infrastructure for service delivery, service P2P and grid computing, service and mobile computing and service computing and applications.

**Information and Database Quality** Mario G. Piattini, Coral Calero, Marcela F. Genero, 2012-12-06 In a global and increasingly competitive market where organizations are driven by information, the search for ways to transform data into true knowledge is critical to a business's success. Few companies, however, have effective methods of managing the quality of this information. Because quality is a multidimensional concept, its management must consider a wide variety of issues related to information and data quality. *Information and Database Quality* is a compilation of works from research and industry that examines these issues covering both the organizational and technical aspects of information and data quality. *Information and Database Quality* is an excellent reference for both researchers and professionals involved in any aspect of information and database research.

**Stream Data Management** Nauman Chaudhry, Kevin Shaw, 2005-04-14 Researchers in data management have recently recognized the importance of a new class of data intensive applications that requires managing data streams, i.e. data composed of continuous real time sequence of items. Streaming applications pose new and interesting challenges for data management systems. Such application domains require queries to be evaluated continuously as opposed to the one time evaluation of a query for traditional applications. Streaming data sets grow continuously and queries must be evaluated on such unbounded data sets. These as well as other challenges require a major rethink of almost all aspects of traditional database management systems to support streaming applications. *Stream Data Management* comprises eight invited chapters.



by researchers active in stream data management The collected chapters provide exposition of algorithms languages as well as systems proposed and implemented for managing streaming data Stream Data Management is designed to appeal to researchers or practitioners already involved in stream data management as well as to those starting out in this area This book is also suitable for graduate students in computer science interested in learning about stream data management

*Mining Sequential Patterns from Large Data Sets* Wei Wang,Jiong Yang,2005-02-28 In many applications e g bioinformatics web access traces system utilization logs etc the data is naturally in the form of sequences It has been of great interests to analyze the sequential data to find their inherent characteristics The sequential pattern is one of the most widely studied models to capture such characteristics Examples of sequential patterns include but are not limited to protein sequence motifs and web page navigation traces In this book we focus on sequential pattern mining To meet different needs of various applications several models of sequential patterns have been proposed We do not only study the mathematical definitions and application domains of these models but also the algorithms on how to effectively and efficiently find these patterns The objective of this book is to provide computer scientists and domain experts such as life scientists with a set of tools in analyzing and understanding the nature of various sequences by 1 identifying the specific models of sequential patterns that are most suitable and 2 providing an efficient algorithm for mining these patterns Chapter 1 INTRODUCTION Data Mining is the process of extracting implicit knowledge and discovery of interesting characteristics and patterns that are not explicitly represented in the databases The techniques can play an important role in understanding data and in capturing intrinsic relationships among data instances Data mining has been an active research area in the past decade and has been proved to be very useful *Privacy-Preserving Data Mining* Charu C. Aggarwal,Philip S. Yu,2008-06-10 Advances in hardware technology have increased the capability to store and record personal data about consumers and individuals causing concerns that personal data may be used for a variety of intrusive or malicious purposes Privacy Preserving Data Mining Models and Algorithms proposes a number of techniques to perform the data mining tasks in a privacy preserving way These techniques generally fall into the following categories data modification techniques cryptographic methods and protocols for data sharing statistical techniques for disclosure and inference control query auditing methods randomization and perturbation based techniques This edited volume contains surveys by distinguished researchers in the privacy field Each survey includes the key research content as well as future research directions Privacy Preserving Data Mining Models and Algorithms is designed for researchers professors and advanced level students in computer science and is also suitable for industry practitioners Data Streams Charu C. Aggarwal,2007-04-03 This book primarily discusses issues related to the mining aspects of data streams and it is unique in its primary focus on the subject This volume covers mining aspects of data streams comprehensively each contributed chapter contains a survey on the topic the key ideas in the field for that particular topic and future research directions The book is intended for a professional audience composed of researchers and



practitioners in industry This book is also appropriate for advanced level students in computer science      *Sequence Data Mining* Guozhu Dong,Jian Pei,2007-10-31 Understanding sequence data and the ability to utilize this hidden knowledge will create a significant impact on many aspects of our society Examples of sequence data include DNA protein customer purchase history web surfing history and more This book provides thorough coverage of the existing results on sequence data mining as well as pattern types and associated pattern mining methods It offers balanced coverage on data mining and sequence data analysis allowing readers to access the state of the art results in one place      *Managing and Mining Uncertain Data* Charu C. Aggarwal,2010-07-08 Managing and Mining Uncertain Data a survey with chapters by a variety of well known researchers in the data mining field presents the most recent models algorithms and applications in the uncertain data mining field in a structured and concise way This book is organized to make it more accessible to applications driven practitioners for solving real problems Also given the lack of structurally organized information on this topic Managing and Mining Uncertain Data provides insights which are not easily accessible elsewhere Managing and Mining Uncertain Data is designed for a professional audience composed of researchers and practitioners in industry This book is also suitable as a reference book for advanced level students in computer science and engineering as well as the ACM IEEE SIAM INFORMS and AAAI Society groups      Fuzzy Database Modeling with XML Zongmin Ma,2006-06-15 Fuzzy Database Modeling with XML aims to provide a single record of current research and practical applications in the fuzzy databases This volume is the outgrowth of research the author has conducted in recent years Fuzzy Database Modeling with XML introduces state of the art information to the database research while at the same time serving the information technology professional faced with a non traditional application that defeats conventional approaches The research on fuzzy conceptual models and fuzzy object oriented databases is receiving increasing attention in addition to fuzzy relational database models With rapid advances in network and internet techniques as well the databases have been applied under the environment of distributed information systems It is essential in this case to integrate multiple fuzzy database systems Since databases are commonly employed to store and manipulate XML data additional requirements are necessary to model fuzzy information with XML Secondly this book maps fuzzy XML model to the fuzzy databases Very few efforts at investigating these issues have thus far occurred Fuzzy Database Modeling with XML is designed for a professional audience of researchers and practitioners in industry This book is also suitable for graduate level students in computer science      **Advanced Signature Indexing for Multimedia and Web Applications** Yannis Manolopoulos,Alexandros Nanopoulos,Eleni Tousidou,2012-09-08 Advanced Signature Indexing for Multimedia and Web Applications presents the latest research developments in signature based indexing and query processing specifically in multimedia and Web domains These domains now demand a different designation of hashing information in bit strings i e signatures and new indexes and query processing methods The book provides solutions to these issues and addresses the resulting requirements which are not adequately handled by existing approaches Examples of these



applications include searching for similar images representing multi theme layers in maps recommending products to Web clients and indexing large Web log files Special emphasis is given to structure description implementation techniques and clear evaluation of operations performed from a performance perspective Advanced Signature Indexing for Multimedia and Web Applications is an excellent reference for professionals involved in the development of applications in multimedia databases or the Web and may also serve as a textbook for advanced level courses in database and information retrieval systems

**The Fractal Structure of Data Reference** Bruce McNutt, 2005-11-24 The architectural concept of a memory hierarchy has been immensely successful making possible today's spectacular pace of technology evolution in both the volume of data and the speed of data access Its success is difficult to understand however when examined within the traditional memoryless framework of performance analysis The memoryless framework cannot properly reflect a memory hierarchy's ability to take advantage of patterns of data use that are transient The Fractal Structure of Data Reference Applications to the Memory Hierarchy both introduces and justifies empirically an alternative modeling framework in which arrivals are driven by a statistically self similar underlying process and are transient in nature The substance of this book comes from the ability of the model to impose a mathematically tractable structure on important problems involving the operation and performance of a memory hierarchy It describes events as they play out at a wide range of time scales from the operation of file buffers and storage control cache to a statistical view of entire disk storage applications Striking insights are obtained about how memory hierarchies work and how to exploit them to best advantage The emphasis is on the practical application of such results The Fractal Structure of Data Reference Applications to the Memory Hierarchy will be of interest to professionals working in the area of applied computer performance and capacity planning particularly those with a focus on disk storage The book is also an excellent reference for those interested in database and data structure research

*Data Quality* Richard Y. Wang, Mostapha Ziad, Yang W. Lee, 2006-04-11 Data Quality provides an exposé of research and practice in the data quality field for technically oriented readers It is based on the research conducted at the MIT Total Data Quality Management TDQM program and work from other leading research institutions This book is intended primarily for researchers practitioners educators and graduate students in the fields of Computer Science Information Technology and other interdisciplinary areas It forms a theoretical foundation that is both rigorous and relevant for dealing with advanced issues related to data quality Written with the goal to provide an overview of the cumulated research results from the MIT TDQM research perspective as it relates to database research this book is an excellent introduction to Ph D who wish to further pursue their research in the data quality area It is also an excellent theoretical introduction to IT professionals who wish to gain insight into theoretical results in the technically oriented data quality area and apply some of the key concepts to their practice



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