

SEMANTIC MODELS FOR MULTIMEDIA DATABASE SEARCHING AND BROWSING

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Semantic Models For Multimedia Database Searching And Browsing

Wei Wang, Jiong Yang



Semantic Models For Multimedia Database Searching And Browsing:

Semantic Models for Multimedia Database Searching and Browsing Shu-Ching Chen,R.L. Kashyap,Arif Ghafoor,2000-09-30 Semantic Models for Multimedia Database Searching and Browsing begins with the introduction of multimedia information applications the need for the development of the multimedia database management systems MDBMSs and the important issues and challenges of multimedia systems The temporal relations the spatial relations the spatio temporal relations and several semantic models for multimedia information systems are also introduced In addition this book discusses recent advances in multimedia database searching and multimedia database browsing More specifically issues such as image video segmentation motion detection object tracking object recognition knowledge based event modeling content based retrieval and key frame selections are presented for the first time in a single book Two case studies consisting of two semantic models are included in the book to illustrate how to use semantic models to design multimedia information systems Semantic Models for Multimedia Database Searching and Browsing is an excellent reference and can be used in advanced level courses for researchers scientists industry professionals software engineers students and general readers who are interested in the issues challenges and ideas underlying the current practice of multimedia presentation multimedia database searching and multimedia browsing in multimedia information systems

Semantic Models for Multimedia Database Searching and Browsing Shu-Ching Chen,R.L. Kashyap,Arif Ghafoor,2005-12-08 Semantic Models for Multimedia Database Searching and Browsing begins with the introduction of multimedia information applications the need for the development of the multimedia database management systems MDBMSs and the important issues and challenges of multimedia systems The temporal relations the spatial relations the spatio temporal relations and several semantic models for multimedia information systems are also introduced In addition this book discusses recent advances in multimedia database searching and multimedia database browsing More specifically issues such as image video segmentation motion detection object tracking object recognition knowledge based event modeling content based retrieval and key frame selections are presented for the first time in a single book Two case studies consisting of two semantic models are included in the book to illustrate how to use semantic models to design multimedia information systems Semantic Models for Multimedia Database Searching and Browsing is an excellent reference and can be used in advanced level courses for researchers scientists industry professionals software engineers students and general readers who are interested in the issues challenges and ideas underlying the current practice of multimedia presentation multimedia database searching and multimedia browsing in multimedia information systems

Distributed Multimedia Database Technologies Supported by MPEG-7 and MPEG-21 Harald Kosch,2003-11-24 A multimedia system needs a mechanism to communicate with its environment the Internet clients and applications MPEG 7 provides a standard metadata format for global communication but lacks the framework to let the various players in a system interact MPEG 21 closes this gap by establishing an

infrastructure for a distributed multimedia frame

Multimedia Databases and Image Communication Maurizio

Tucci, 2003-06-30 Multimedia technologies are rapidly attracting more and more interest every day. The Internet as seen from the end user is one of the reasons for this phenomenon but not the only one. Video on Demand is one of the buzzwords today but its real availability to the general public is yet to come. Content providers such as publishers, broadcasting companies and audio video production firms must be able to archive and index their productions for later retrieval. This is a formidable task even more so when the material to be sorted encompasses many different types of several media and covers a time span of several years. In order for such a vast amount of data to be easily available, existing database design models and indexing methodologies have to be improved and refined. In addition, new techniques especially tailored to the various types of multimedia must be devised and evaluated. For archiving and transmission, data compression is another issue that needs to be addressed. In many cases, it has been found that compression and indexing can be successfully integrated since compressing the data by filtering out irrelevancy implies some degree of understanding of the content structure.

Methods and Innovations for Multimedia Database Content Management Chen, Shu-Ching, Shyu, Mei-Ling, 2012-06-30

Multimedia and its rich semantics are prolific in today's digital environment. Databases and content management systems serve as essential tools to ensure that the endless supply of multimedia content are indexed and remain accessible to end users. *Methods and Innovations for Multimedia Database Content Management* highlights original research on new theories, algorithms, technologies, system design and implementation in multimedia data engineering and management with an emphasis on automatic indexing, tagging, high order ranking and rule mining. This book is an ideal resource for university researchers, scientists, industry professionals, software engineers and graduate students.

Encyclopedia of Multimedia Borko

Furht, 2008-11-26 This second edition provides easy access to important concepts, issues and technology trends in the field of multimedia technologies, systems, techniques and applications. Over 1,100 heavily illustrated pages including 80 new entries present concise overviews of all aspects of software, systems, web tools and hardware that enable video, audio and developing media to be shared and delivered electronically.

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

Metadata and Semantic Research Fabio Sartori, Miguel-Angel Sicilia, Nikos Manouselis, 2009-09-29 This volume constitutes the selected papers of the third international conference on Metadata and Semantic Research MTSR 2009 held in Milan Italy in September October 2009 In order to give a novel perspective in which both theoretical and application aspects of metadata research contribute in the growth of the area this book mirrors the structure of the Congress grouping the papers into three main categories 1 theoretical research results and proposals 2 applications case studies and proposals 3 special track metadata and semantics for agriculture food and environment The book contains 32 full papers 10 for the first category 10 for the second and 12 for the third selected from a preliminary initial set of about 70 submissions

Securing Web Services: Practical Usage of Standards and Specifications Periorellis, Panos, 2007-10-31 This book collects a complete set of studies addressing the security and dependability challenges of Web services and the development of protocols to meet them Encompassing a complete range of topics including specifications for message level security transactions and identity management it enables libraries to provide researchers an authoritative guide to a most challenging technological topic

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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

Multimedia Services in Intelligent Environments George A Tsihrintzis, 2008-07-02 Multimedia services involve processing transmission and retrieval of multiple forms of information Multimedia services have gained momentum in the past few years due to the easy availability of computing power and storage media Society is demanding human like intelligent behaviour such as adaptation and generalization from machines every day With this view in mind researchers are working on fusing intelligent paradigms such as artificial neural networks swarm intelligence artificial immune systems evolutionary computing and multiagents with multimedia

services Artificial neural networks use neurons interconnected using various schemes for fusing learning in multimedia based systems Evolutionary computing techniques are used in tasks such as optimization Typical multiagent systems are based on Belief Desire Intention model and act on behalf of the users Typical examples of intelligent multimedia services include digital libraries e learning and teaching e government e commerce e entertainment e health and e legal services This book includes 15 chapters on advanced tools and methodologies pertaining to the multimedia services The authors and reviewers have contributed immensely to this research oriented book We believe that this search volume will be valuable to professors researchers and students of all disciplines such as computer science engineering and management We express our sincere thanks to Springer Verlag for their wonderful editorial support

Similarity Search Pavel Zezula, Giuseppe Amato, Vlastislav Dohnal, Michal Batko, 2006-06-07

The area of similarity searching is a very hot topic for both research and commercial applications Current 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 Zezula 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

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

Intelligent Multimedia Databases and Information

Retrieval: Advancing Applications and Technologies Yan, Li, 2011-09-30 As consumer costs for multimedia devices such as digital cameras and Web phones have decreased and diversity in the market has skyrocketed the amount of digital information has grown considerably Intelligent Multimedia Databases and Information Retrieval Advancing Applications and Technologies details the latest information retrieval technologies and applications the research surrounding the field and the methodologies and design related to multimedia databases Together with academic researchers and developers from both information retrieval and artificial intelligence fields this book details issues and semantics of data retrieval with contributions from around the globe As the information and data from multimedia databases continues to expand the research and documentation surrounding it should keep pace as best as possible and this book provides an excellent resource for the latest developments

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

High Assurance Services Computing

Jing Dong, Raymond Paul, Liang-Jie Zhang, 2009-05-28 Service computing is a cutting edge area popular in both industry and academia New challenges have been introduced to develop service oriented systems with high assurance requirements High Assurance Services Computing captures and makes accessible the most recent practical developments in service oriented high assurance systems An edited volume contributed by well established researchers in this field worldwide this book reports the best current practices and emerging methods in the areas of service oriented techniques for high assurance systems Available results from industry and government R D laboratories and academia are included along with unreported results from the hands on experiences of software professionals in the respective domains Designed for practitioners and researchers working for industrial

organizations and government agencies High Assurance Services Computing is also suitable for advanced level students in computer science and engineering **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

Stream Data Management Nauman Chaudhry,Kevin Shaw,Mahdi Abdelguerfi,2005-09-19 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 *Mutation Testing for the New Century* W. Eric Wong,2013-03-09 Extensive research and development has produce mutation tools for languages such as Fortran Ada C and IDL empirical evaluations comparing mutation with other test adequacy criteria empirical evidence and theoretical justification for the coupling effect and techniques for speeding up mutation testing using various types of high performance architectures Mutation has received the attention of software developers and testers in such diverse areas as network protocols and nuclear simulation Mutation Testing for the New Century brings together cutting edge research results in mutation testing from a wide range of researchers This book provides answers to key questions related to mutation and raises questions yet to be answered It is an excellent resource for researchers practitioners and students of software engineering

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Table of Contents Semantic Models For Multimedia Database Searching And Browsing

1. Understanding the eBook Semantic Models For Multimedia Database Searching And Browsing
 - The Rise of Digital Reading Semantic Models For Multimedia Database Searching And Browsing
 - Advantages of eBooks Over Traditional Books
2. Identifying Semantic Models For Multimedia Database Searching And Browsing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Semantic Models For Multimedia Database Searching And Browsing
 - User-Friendly Interface

4. Exploring eBook Recommendations from Semantic Models For Multimedia Database Searching And Browsing
 - Personalized Recommendations
 - Semantic Models For Multimedia Database Searching And Browsing User Reviews and Ratings
 - Semantic Models For Multimedia Database Searching And Browsing and Bestseller Lists
5. Accessing Semantic Models For Multimedia Database Searching And Browsing Free and Paid eBooks
 - Semantic Models For Multimedia Database Searching And Browsing Public Domain eBooks
 - Semantic Models For Multimedia Database Searching And Browsing eBook Subscription Services
 - Semantic Models For Multimedia Database Searching And Browsing Budget-Friendly Options
6. Navigating Semantic Models For Multimedia Database Searching And Browsing eBook Formats
 - ePub, PDF, MOBI, and More
 - Semantic Models For Multimedia Database Searching And Browsing Compatibility with Devices
 - Semantic Models For Multimedia Database Searching And Browsing Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semantic Models For Multimedia Database Searching And Browsing
 - Highlighting and Note-Taking Semantic Models For Multimedia Database Searching And Browsing
 - Interactive Elements Semantic Models For Multimedia Database Searching And Browsing
8. Staying Engaged with Semantic Models For Multimedia Database Searching And Browsing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semantic Models For Multimedia Database Searching And Browsing
9. Balancing eBooks and Physical Books Semantic Models For Multimedia Database Searching And Browsing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semantic Models For Multimedia Database Searching And Browsing
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Semantic Models For Multimedia Database Searching And Browsing
 - Setting Reading Goals Semantic Models For Multimedia Database Searching And Browsing
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Semantic Models For Multimedia Database Searching And Browsing
 - Fact-Checking eBook Content of Semantic Models For Multimedia Database Searching And Browsing
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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convenzionalmente come data di nascita del cinema nonostante l'invenzione del cinema sia

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