



Mining Complex Types of Data

- Multidimensional analysis and descriptive mining of complex data objects
- Mining spatial databases
- Mining multimedia databases
- Mining time-series and sequence data
- Mining text databases
- Mining the World-Wide Web
- **Summary**

Mining Multimedia And Complex Data

Jiawei Han, Jian Pei, Micheline Kamber



Mining Multimedia And Complex Data:

Mining Multimedia and Complex Data Osmar R. Zaiane, Simeon Simoff, Chabane Djeraba, 2003-10-23 1

WorkshopTheme Digital multimedia differs from previous forms of combined media in that the bits that represent text images animations and audio video and other signals can be treated as data by computer programs One facet of this diverse data in terms of underlying models and formats is that it is synchronized and integrated hence it can be treated as integral data records Such records can be found in a number of areas of human endeavour Modern medicine generates huge amounts of such digital data Another ample is architectural design and the related architecture engineering and construction AEC industry Virtual communities in the broad sense of this word which includes any communities mediated by digital technologies are another example where generated data constitutes an integral data record Such data may include data about member profiles the content generated by the virtual community and communication data in different formats including e mail chat records SMS messages videoconferencing records Not all multimedia data is so diverse An example of less diverse data but data that is larger in terms of the collected amount is that generated by video surveillance systems where each integral data record roughly consists of a set of time stamped images the video frames In any case the collection of such integral data records constitutes a multimedia data set The challenge of extracting meaningful patterns from such data sets has led to the research and development in the area of multimedia data mining

Mining Multimedia and Complex Data Osmar R. Zaiane, Simeon Simoff, Chabane Djeraba, 2003-10-13 1 WorkshopTheme Digital multimedia differs from previous forms of combined media in that the bits that represent text images animations and audio video and other signals can be treated as data by computer programs One facet of this diverse data in terms of underlying models and formats is that it is synchronized and integrated hence it can be treated as integral data records Such records can be found in a number of areas of human endeavour Modern medicine generates huge amounts of such digital data Another ample is architectural design and the related architecture engineering and construction AEC industry Virtual communities in the broad sense of this word which includes any communities mediated by digital technologies are another example where generated data constitutes an integral data record Such data may include data about member profiles the content generated by the virtual community and communication data in different formats including e mail chat records SMS messages videoconferencing records Not all multimedia data is so diverse An example of less diverse data but data that is larger in terms of the collected amount is that generated by video surveillance systems where each integral data record roughly consists of a set of time stamped images the video frames In any case the collection of such integral data records constitutes a multimedia data set The challenge of extracting meaningful patterns from such data sets has led to the research and development in the area of multimedia data mining

Data Mining, Southeast Asia Edition Jiawei Han, Jian Pei, Micheline Kamber, 2006-04-06 Our ability to generate and collect data has been increasing rapidly Not only are all of our business scientific and government transactions now computerized but the

widespread use of digital cameras publication tools and bar codes also generate data On the collection side scanned text and image platforms satellite remote sensing systems and the World Wide Web have flooded us with a tremendous amount of data This explosive growth has generated an even more urgent need for new techniques and automated tools that can help us transform this data into useful information and knowledge Like the first edition voted the most popular data mining book by KD Nuggets readers this book explores concepts and techniques for the discovery of patterns hidden in large data sets focusing on issues relating to their feasibility usefulness effectiveness and scalability However since the publication of the first edition great progress has been made in the development of new data mining methods systems and applications This new edition substantially enhances the first edition and new chapters have been added to address recent developments on mining complex types of data including stream data sequence data graph structured data social network data and multi relational data A comprehensive practical look at the concepts and techniques you need to know to get the most out of real business data Updates that incorporate input from readers changes in the field and more material on statistics and machine learning Dozens of algorithms and implementation examples all in easily understood pseudo code and suitable for use in real world large scale data mining projects Complete classroom support for instructors at www.mkp.com/datamining2e

companion site Mining Multimedia and Complex Data Osmar R. Zaiane, Simeon Simoff, Chabane Djeraba, 2014-01-15

Multi-Modal User Interactions in Controlled Environments Chaabane Djeraba, Adel Lablack, Yassine Benabbas, 2010-06-30
Multi Modal User Interactions in Controlled Environments investigates the capture and analysis of user s multimodal behavior mainly eye gaze eye fixation eye blink and body movements within a real controlled environment controlled supermarket personal environment in order to adapt the response of the computer environment to the user Such data is captured using non intrusive sensors for example cameras in the stands of a supermarket installed in the environment This multi modal video based behavioral data will be analyzed to infer user intentions while assisting users in their day to day tasks by adapting the system s response to their requirements seamlessly This book also focuses on the presentation of information to the user Multi Modal User Interactions in Controlled Environments is designed for professionals in industry including professionals in the domains of security and interactive web television This book is also suitable for graduate level students in computer science and electrical engineering *Intelligence and Security Informatics* Paul Kantor, Gheorghe Muresan, Fred Roberts, Daniel Zeng, Frei-Yue Wang, Hsinchun Chen, Ralph Merkle, 2005-04-25 Intelligence and security informatics ISI can be broadly defined as the study of the development and use of advanced information technologies and systems for national and international security related applications through an integrated technological organizational and policy based approach In the past few years ISI research has experienced tremendous growth and attracted substantial interest from academic researchers in related fields as well as practitioners from both government agencies and industry The first two meetings ISI 2003 and ISI 2004 in the ISI symposium and conference series were held in Tucson Arizona in 2003

and 2004 respectively They provided a stimulating intellectual forum for discussion among previously disparate communities academic researchers in information technologies computer science public policy and social studies local state and federal law enforcement and intelligence experts and information technology industry consultants and practitioners Building on the momentum of these ISI meetings and with sponsorship by the IEEE we held the IEEE International Conference on Intelligence and Security Informatics ISI 2005 in May 2005 in Atlanta Georgia In addition to the established and emerging ISI research topics covered at past ISI meetings ISI 2005 included a new track on Terrorism Informatics which is a new stream of terrorism research leveraging the latest advances in social science methodologies and information technologies and tools ISI 2005 was jointly hosted by Rutgers the State University of New Jersey the University of Arizona UA and the Georgia Institute of Technology GATECH

Medical Informatics: Concepts, Methodologies, Tools, and Applications Tan, Joseph, 2008-09-30 Provides a collection of medical IT research in topics such as clinical knowledge management medical informatics mobile health and service delivery and gene expression

Spatial Databases Yannis Manolopoulos, Apostolos N. Papadopoulos, Michael Gr Vassilakopoulos, 2005-01-01 Introduces the reader to the world of spatial databases and related subtopics The broad range of topics includes spatial data modelling indexing of spatial and spatiotemporal objects data mining and knowledge discovery in spatial and spatiotemporal management issues and query processing for moving objects

Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-09-06 The ubiquity of modern technologies has allowed for increased connectivity between people and devices across the globe This connected infrastructure of networks creates numerous opportunities for applications and uses As the applications of the internet of things continue to progress so do the security concerns for this technology The study of threat prevention in the internet of things is necessary as security breaches in this field can ruin industries and lives Securing the Internet of Things Concepts Methodologies Tools and Applications is a vital reference source that examines recent developments and emerging trends in security and privacy for the internet of things through new models practical solutions and technological advancements related to security Highlighting a range of topics such as cloud security threat detection and open source software this multi volume book is ideally designed for engineers IT consultants ICT procurement managers network system integrators infrastructure service providers researchers academics and professionals interested in current research on security practices pertaining to the internet of things

Advanced Fuzzy Logic Technologies in Industrial Applications Ying Bai, Hanqi Zhuang, Dali Wang, 2007-01-17 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering The rapid development of control technology has an impact on all areas of the control discipline New theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges Much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects The series offers an opportunity

for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination In the mid 1960s and contemporary with Kalman's pioneering papers on state space models and optimal control L A Zadeh began publishing papers on fuzzy sets It took another decade before the fuzzy logic controller due to Mamdani and Assilion was reported in the literature ca 1974 and now the fuzzy logic control paradigm is entering its fifth decade of development and application Thus this new Advances in Industrial Control monograph edited by Ying Bai Hanqi Zhuang and Dali Wang on fuzzy logic control and its practical application comes as a timely reminder of the wide range of problems that can be solved by this continually evolving methodology **Enterprise Systems Integration** Judith M. Myerson, 2001-09-26

The convergence of knowledge technology and human performance which comprises today's enterprise allows creative business process design Thus an organization can create new and innovative ways to service customers or to do business with suppliers and make itself a leader in its field This capability relies on a successful strategy that integrates *Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications* Wang, John, 2008-05-31 In recent years the science of managing and analyzing large datasets has emerged as a critical area of research In the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data **Data Warehousing and**

Mining John Wang, 2008 This collection offers tools designs and outcomes of the utilization of data mining and warehousing technologies such as algorithms concept lattices multidimensional data and online analytical processing With more than 300 chapters contributed by over 575 experts from around the globe this authoritative collection will provide libraries with the essential reference on data mining and warehousing Provided by publisher **Database and Expert Systems**

Applications Sourav S. Bhowmick, Josef Küng, Roland Wagner, 2008-08-18 This book constitutes the refereed proceedings of the 19th International Conference on Database and Expert Systems Applications DEXA 2008 held in Turin Italy in September 2008 The 74 revised full papers presented together with 1 invited paper were carefully reviewed and selected from 208 submissions The papers are organized in topical sections on data privacy temporal spatial and high dimensional databases semantic Web and ontologies query processing Web and information retrieval mobile data and information data and information streams data mining algorithms multimedia databases data mining systems data warehousing OLAP data and information semantics XML databases applications of database information and decision support systems and schema process and knowledge modelling and evolution Summary of a Workshop on Information Technology Research for

Federal Statistics National Research Council, Commission on Behavioral and Social Sciences and Education, Committee on National Statistics, Commission on Physical Sciences, Mathematics, and Applications, Computer Science and Telecommunications Board, Committee on Computing and Communications Research to Enable Better Use of Information Technology in Government, 2000-08-05 Part of an in depth study of how information technology research and development

could more effectively support advances in the use of information technology IT in government Summary of a Workshop on Information Technology Research for Federal Statistics explores IT research opportunities of relevance to the collection analysis and dissemination of federal statistics On February 9 and 10 1999 participants from a number of communities IT research IT research management federal statistics and academic statistics met to identify ways to foster interaction among computing and communications researchers federal managers and professionals in specific domains that could lead to collaborative research efforts By establishing research links between these communities and creating collaborative mechanisms aimed at meeting relevant requirements this workshop promoted thinking in the computing and communications research community and throughout government about possibilities for advances in technology that will support a variety of digital initiatives by the government *Fundamentals of Relational Database Management Systems* S. Sumathi,S.

Esakkirajan,2007-02-13 This book provides comprehensive coverage of fundamentals of database management system It contains a detailed description on Relational Database Management System Concepts There are a variety of solved examples and review questions with solutions This book is for those who require a better understanding of relational data modeling its purpose its nature and the standards used in creating relational data model **Database Technologies: Concepts, Methodologies, Tools, and Applications** Erickson, John,2009-02-28 This reference expands the field of database

technologies through four volumes of in depth advanced research articles from nearly 300 of the world s leading professionals Provided by publisher Information Security and Ethics: Concepts, Methodologies, Tools, and Applications Nemati, Hamid,2007-09-30 Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the opportunities future challenges and emerging trends related to this subject **Comprehensive Geographic Information Systems** ,2017-07-21 Geographical Information

Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth s surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline through in depth reviews authored by leading experts in the field VOLUME EDITORSThomas J CovaThe University of Utah Salt Lake City UT United StatesMing Hsiang TsouSan Diego State University San Diego CA United StatesGeorg BarethUniversity of Cologne Cologne GermanyChunqiao SongUniversity of California Los Angeles CA United StatesYan SongUniversity of North Carolina at Chapel Hill Chapel Hill NC United StatesKai CaoNational University of Singapore SingaporeElisabete A SilvaUniversity of Cambridge Cambridge United Kingdom Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications

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Intelligence Xilong Qu,Chenguang Yang,2012-04-25 This two volume set CCIS 267 and CCIS 268 constitutes the refereed proceedings of the International Conference on Information and Business Intelligence IBI 2011 held in Chongqing China in December 2011 The 229 full papers presented were carefully reviewed and selected from 745 submissions The papers address topics such as communication systems accounting and agribusiness information education and educational technology manufacturing engineering multimedia convergence security and trust computing business teaching and education international business and marketing economics and finance and control systems and digital convergence

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