Image mining

Video Mining

Audio Mining

Text Mining

Mining Combinations of data types

Multimedia data mining

Data Mining On Multimedia Data

Osmar R. Zaïane

Data Mining On Multimedia Data:

Data Mining on Multimedia Data Petra Perner,2003-07-01 Despite being a young field of research and development data mining has proved to be a successful approach to extracting knowledge from huge collections of structured digital data collection as usually stored in databases Whereas data mining was done in early days primarily on numerical data nowadays multimedia and Internet applications drive the need to develop data mining methods and techniques that can work on all kinds of data such as documents images and signals This book introduces the basic concepts of mining multimedia data and demonstrates how to apply these methods in various application fields It is written for students ambitioned professionals from industry and medicine and for scientists who want to contribute R D work to the field or apply this new technology

Managing and Mining Multimedia Databases Bhavani Thuraisingham,2001-06-28 There is now so much data on the Web that managing it with conventional tools is becoming almost impossible To manage this data provide interoperability and warehousing between multiple data sources and systems and extract information from the databases and warehouses various tools are being developed In fact developments in multimedia databa **Multimedia Data Mining** Zhongfei Zhang,Ruofei Zhang,2008-12-02 Collecting the latest developments in the field Multimedia Data Mining A Systematic Introduction to Concepts and Theory defines multimedia data mining its theory and its applications Two of the most active researchers in multimedia data mining explore how this young area has rapidly developed in recent years The book first discusses the theore *Multimedia Data Mining and Knowledge Discovery* Valery A. Petrushin,Latifur Khan,2007-10-20 This tightly edited collection of papers from leading researchers worldwide provides an overview of the current state of the art in the field of multimedia data mining and knowledge discovery and discusses the variety of hot topics in multimedia data mining research Consisting of an introductory section and four topical parts the book describes the objectives and current tendencies in multimedia data mining research and their applications Each part contains an overview of its chapters and leads the reader with a structured approach through the diverse subjects in the field Written with graduates in mind this much needed comprehensive reflection of the current state of multimedia data mining and knowledge discovery will also be a valuable resource for researchers in the field This book provides an overview of the current state of the art in the field of multimedia data mining and knowledge discovery and discusses the variety of hot topics in multimedia data mining research Topics and Features Features a comprehensive introduction to multimedia data mining and its relevance today presents a global perspective of the field and its various components provides broad yet thorough and detailed coverage of the subject numerous chapters reference websites with supplementary materials and demonstrations explores multimedia data exploration multimedia data modeling and evaluation and visualization offers an entire part devoted to applications and case studies Written with graduate students in mind this much needed comprehensive survey of the current state of multimedia data mining and knowledge discovery will also serve as a valuable resource for researchers with interests in multimedia data

mining summarization indexing and retrieval   **Data Mining** Sushmita Mitra,Tinku Acharya,2005-01-07 First title to ever present soft computing approaches and their application in data mining along with the traditional hard computing approaches Addresses the principles of multimedia data compression techniques for image video text and their role in data mining Discusses principles and classical algorithms on string matching and their role in data mining   *Multimedia Data Mining and Analytics* Aaron K. Baughman,Jiang Gao,Jia-Yu Pan,Valery A. Petrushin,2015-03-31 This book provides fresh insights into the cutting edge of multimedia data mining reflecting how the research focus has shifted towards networked social communities mobile devices and sensors The work describes how the history of multimedia data processing can be viewed as a sequence of disruptive innovations Across the chapters the discussion covers the practical frameworks libraries and open source software that enable the development of ground breaking research into practical applications Features reviews how innovations in mobile social cognitive cloud and organic based computing impacts upon the development of multimedia data mining provides practical details on implementing the technology for solving real world problems includes chapters devoted to privacy issues in multimedia social environments and large scale biometric data processing covers content and concept based multimedia search and advanced algorithms for multimedia data representation processing and visualization   *Multimedia Data Mining and Retrieval for Multimedia Databases Using Associations and Correlations* Lin Lin,2010 With the explosion in the complexity and amount of pervasive multimedia data there are high demands of multimedia services and applications in various areas for people to easily access and distribute multimedia data Facing with abundance multimedia resources but inefficient and rather old fashioned keyword based information retrieval approaches a content based multimedia information retrieval CBMIR system is required to i reduce the dimension space for storage saving and computation reduction ii advance multimedia learning methods to accurately identify target semantics for bridging the semantics between low level mid level features and high level semantics and iii effectively search media content for dynamical media delivery and enable the extensive applications to be media type driven This research mainly focuses on multimedia data mining and retrieval system for multimedia databases by addressing some main challenges such as data imbalance data quality semantic gap user subjectivity and searching issues Therefore a novel CBMIR system is proposed in this dissertation The proposed system utilizes both association rule mining ARM technique and multiple correspondence analysis MCA technique by taking into account both pattern discovery and statistical analysis First media content is represented by the global and local low level and mid level features and stored in the multimedia database Second a data filtering component is proposed in the system to improve the data quality and reduce the data imbalance To be specific the proposed filtering step is able to vertically select features and horizontally prune instances in multimedia databases Third a new learning and classification method mining weighted association rules is proposed in the retrieval system The MCA based correlation is used to generate and select the weighted N feature value pair rules where the N varies from one to many Forth

a ranking method independent of classifiers is proposed in the system to sort the retrieved results and put the most interesting ones on the top of the browsing list Finally a user interface is implemented in CBMIR system that allows the user to choose his her interested concept searches media based on the target concept ranks the retrieved segments using the proposed ranking algorithm and then displays the top ranked segments to the user The system is experimented with various high level semantics from TRECVID benchmark data sets TRECVID sound and vision data is a large data set includes various types of videos and has very rich semantics Overall the proposed system achieves promising results in comparison with the other well known methods Moreover experiments that compare each component with some other famous algorithms are conducted The experimental results show that all proposed components improve the functionalities of the CBMIR system and the proposed system reaches effectiveness robustness and efficiency for a high dimensional multimedia database

   Multimedia Data Mining and Analytics Aaron K. Baughman,Jiang Gao,Jia-Yu Pan,Valeriĭ Aleksandrovich Petrushin,2015 This authoritative text reference provides fresh insights into the cutting edge of multimedia data mining reflecting how the research focus has shifted towards networked social communities mobile devices and sensors Presenting a detailed exploration into the progression of the field the book describes how the history of multimedia data processing can be viewed as a sequence of disruptive innovations Across the chapters the discussion covers the practical frameworks libraries and open source software that enable the development of ground breaking research into practical applications Topics and features Contains contributions from an international selection of pre eminent authorities in the field Reviews how disruptive innovations in mobile social cognitive cloud and organic based computing impacts upon the development of multimedia data mining Provides practical details on implementing the technology for solving real world multimedia problems Includes chapters devoted to privacy issues in multimedia social environments and large scale biometric data processing Covers content and concept based multimedia search and advanced algorithms for multimedia data representation processing and visualization The illuminating viewpoints presented in this comprehensive volume will be of great interest to researchers and graduate students involved in machine learning and pattern recognition as well as to professional multimedia analysts and software developers   *Data Mining for Multimedia Databases* Vibha Lakshmikantha,Venugopal K. R.,P. Deepa Shenoy,2012-07 Database mining refers to extracting previously unrecognized information from data stored in conventional databases Multimedia data mining deals with the extraction of implicit knowledge multimedia data relationships or other patterns not explicitly stored in multimedia databases Three specific kinds of multimedia databases like image video and remote sensed image are dealt with A simple kind of multimedia database i e static image where each mammogram is a set of four images is considered Statistical analysis is performed on them to classify them as normal benign and malign Next a more complex database like video is considered where it begins with a slow moving video clip and then move towards a faster moving video clip in identifying and tracking objects A specialized multimedia data is chosen where an image obtained

from a remote sensed satellite The image is segmented into distinct regions like barren land vegetative area water bodies etc and then we count the number of trees in the vegetative area The analysis and Literature Survey are useful for students and research community who are working on Data Mining signal processing and Multimedia Mining **Data Mining Algorithms To Mine Multimedia Data** R. Manjunath,2024-01-15 Multimedia is nothing but Analysis of variety of multimedia data to extract patterns based on statistical relationship It s a melody vocal by accord with multi channel and multi model bits of information construction Its crucial role is to notify educate and or entertain every one Multimedia is pervade exciting and involving means of info edutainment with multiple facet and extended approbation Multimedia data commonly use in the field of TSE information science and engineering geography modern biology medicine weather forecast biometrics manufacturing digital libraries and retailing journalism art entertainment social sciences and space learning Multimedia or Interactive media database structure incorporates a sight and sound records supervision framework which handles and gives base to putting away extricating and controlling mixed media information from mixed media information Multimedia data contains structured information and un structured information for example text audio graphs images video and media Multimedia data extracting is a sub field of DM which is use to discover fascinating data of hidden understanding from multimedia data Multimedia DM is a form of data mining Data mining algorithms use to segment data to categorize helpful patterns and to forecast Regardless of the achievement in many areas data mining demanding task **Multimedia Mining** Chabane Djeraba,2002-11-30 Multimedia Mining A Highway to Intelligent Multimedia Documents brings together experts in digital media content analysis state of art data mining and knowledge discovery in multimedia database systems knowledge engineers and domain experts from diverse applied disciplines Multimedia documents are ubiquitous and often required if not essential in many applications today This phenomenon has made multimedia documents widespread and extremely large There are tools for managing and searching within these collections but the need for tools to extract hidden useful knowledge embedded within multimedia objects is becoming pressing and central for many decision making applications The tools needed today are tools for discovering relationships between objects or segments within multimedia document components such as classifying images based on their content extracting patterns in sound categorizing speech and music and recognizing and tracking objects in video streams **Data Mining on Multimedia Data** Petra Perner,2002-12-13 Despite being a young field of research and development data mining has proved to be a successful approach to extracting knowledge from huge collections of structured digital data collection as usually stored in databases Whereas data mining was done in early days primarily on numerical data nowadays multimedia and Internet applications drive the need to develop data mining methods and techniques that can work on all kinds of data such as documents images and signals This book introduces the basic concepts of mining multimedia data and demonstrates how to apply these methods in various application fields It is written for students ambitioned professionals from industry and medicine and for scientists

who want to contribute R D work to the field or apply this new technology **Big Data Analytics for Large-Scale Multimedia Search** Stefanos Vrochidis,Benoit Huet,Edward Y. Chang,Ioannis Kompatsiaris,2019-03-18 A timely overview of cutting edge technologies for multimedia retrieval with a special emphasis on scalability The amount of multimedia data available every day is enormous and is growing at an exponential rate creating a great need for new and more efficient approaches for large scale multimedia search This book addresses that need covering the area of multimedia retrieval and placing a special emphasis on scalability It reports the recent works in large scale multimedia search including research methods and applications and is structured so that readers with basic knowledge can grasp the core message while still allowing experts and specialists to drill further down into the analytical sections Big Data Analytics for Large Scale Multimedia Search covers representation learning concept and event based video search in large collections big data multimedia mining large scale video understanding big multimedia data fusion large scale social multimedia analysis privacy and audiovisual content data storage and management for big multimedia large scale multimedia search multimedia tagging using deep learning interactive interfaces for big multimedia and medical decision support applications using large multimodal data Addresses the area of multimedia retrieval and pays close attention to the issue of scalability Presents problem driven techniques with solutions that are demonstrated through realistic case studies and user scenarios Includes tables illustrations and figures Offers a Wiley hosted BCS that features links to open source algorithms data sets and tools Big Data Analytics for Large Scale Multimedia Search is an excellent book for academics industrial researchers and developers interested in big multimedia data search retrieval It will also appeal to consultants in computer science problems and professionals in the multimedia industry *Mining Multimedia and Complex Data* Osmar R. Zaiane,Simeon Simoff,Chabane Djeraba,2003-10-23 1 WorkshopTheme Digital multimedia di ers 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 termsofunderlyingmodelsandformatsisthatitissynchronizedandintegrated 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 c struction 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 pro les the content generated by the virtual community and communication data in di erent 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 in gral data records constitutes a multimedia data set The challenge of extracting meaningful

patterns from such data sets has led to the research and devel ment in the area of multimedia data mining **Multimedia Data Mining** Zhongfei Zhang,Ruofei Zhang,2008-12-02 Collecting the latest developments in the field Multimedia Data Mining A Systematic Introduction to Concepts and Theory defines multimedia data mining its theory and its applications Two of the most active researchers in multimedia data mining explore how this young area has rapidly developed in recent years The book first discusses the theore **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 Documents** Wahiba Ben Abdessalem Karaa,Nilanjan Dey,2017-04-21 The information age has led to an explosion in the amount of information available to the individual and the means by which it is accessed stored viewed and transferred In particular the growth of the internet has led to the creation of huge repositories of multimedia documents in a diverse range of scientific and professional fields as well as the tools to extract useful knowledge from them Mining Multimedia Documents is a must read for researchers practitioners and students working at the intersection of data mining and multimedia applications It investigates various techniques related to mining multimedia documents based on text image and video features It provides an insight into the open research problems benefitting advanced undergraduates graduate students researchers scientists and practitioners in the fields of medicine biology production education government national security and economics Encyclopedia of Multimedia Technology and Networking, Second Edition Pagani, Margherita,2008-08-31 Advances in hardware software and audiovisual rendering technologies of recent years have unleashed a wealth of new capabilities and

possibilities for multimedia applications creating a need for a comprehensive up to date reference The Encyclopedia of Multimedia Technology and Networking provides hundreds of contributions from over 200 distinguished international experts covering the most important issues concepts trends and technologies in multimedia technology This must have reference contains over 1 300 terms definitions and concepts providing the deepest level of understanding of the field of multimedia technology and networking for academicians researchers and professionals worldwide **Special Issue on Multimedia Data Mining** Osmar R. Zaïane,2002 *Multimedia Data Mining Techniques for Semantic Annotation, Retrieval and Recommendation* □□□,2010

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