SEARCHING MULTIMEDIA DATABASES BY CONTENT

by
Christos Faloutsos

Searching Multimedia Databases By Content

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Searching Multimedia Databases By Content:

Searching Multimedia Databases by Content Christos Faloutsos,2012-12-06 Searching Multimedia Databases by Content bridges the gap between the database and signal processing communities by providing the necessary background information for the reader and presenting it along with the intuition and mechanics of the best existing tools in each area The first half of Searching Multimedia Databases by Content reviews the most successful database access methods in increasing complexity reaching up to spatial access methods and text retrieval In all cases the emphasis is on practical approaches that have been incorporated in commercial systems or that seem very promising The second half of the book uses the above access methods to achieve fast searching in a database of signals A general methodology is presented which suggests extracting a few good features from each multimedia object thus mapping objects into points in a metric space Finally the book concludes by presenting some recent successful applications of the methodology on time series and color images Searching Multimedia Databases by Content is targeted towards researchers and developers of multimedia systems The book can also serve as a textbook for a graduate course on multimedia searching covering both access methods as well as the basics of signal processing **Handbook of Video Databases** Borko Furht,Oge Marques,2003-09-30 Technology has spurred the growth of huge image and video libraries many growing into the hundreds of terabytes As a result there is a great demand among organizations for the design of databases that can effectively support the storage search retrieval and transmission of video data Engineers and researchers in the field demand a comprehensi **Artificial Intelligence Techniques for Computer Graphics** Dimitri Plemenos,Georgios Miaoulis,2008-10-02 The purpose of this volume is to present current work of the Intelligent Computer Graphics community a community growing up year after year Indeed if at the beg ning of Computer Graphics the use of Artificial Intelligence techniques was quite unknown more and more researchers all over the world are nowadays interested in intelligent techniques allowing substantial improvements of traditional Computer Graphics methods The other main contribution of intelligent techniques in Computer Graphics is to allow invention of completely new methods often based on automation of a lot of tasks assumed in the past by the user in an imprecise and human time consuming manner The history of research in Computer Graphics is very edifying At the beginning due to the slowness of computers in the years 1960 the unique research concern was visualisation The purpose of Computer Graphics researchers was to find new visua sation algorithms less and less time consuming in order to reduce the enormous time required for visualisation A lot of interesting algorithms were invented during these first years of research in Computer Graphics The scenes to be displayed were very simple because the computing power of computers was very low So scene modelling was not necessary and scenes were designed directly by the user who had to give co ordinates of vertices of scene polygons   Digital Media Information Base: Proceedings Of The International Symposium Masatoshi Yoshikawa,Yahiko Kambayashi,Shunsuke Uemura,1998-03-12 With the rapid growth of computer and communication technologies the creation

modification and distribution of digital multimedia information have become easier than ever Such multimedia information includes still images video audio texts and artifacts in virtual space The efficient storage of valuable information and rapid access to it is crucial to all modern organizations This proceedings volume consists of papers by researchers and academicians which explore the various aspects of the digital media information base A special emphasis is placed on new database system technologies   Executive MBA in IT - City of London College of Economics - 12 months - 100% online / self-paced City of London College of Economics, Overview An MBA in information technology or a Master of Business Administration in Information Technology is a degree that will prepare you to be a leader in the IT industry Content Managing Projects and IT Information Systems and Information Technology IT Manager s Handbook Business Process Management Human Resource Management Principles of Marketing The Leadership Just What Does an IT Manager Do The Strategic Value of the IT Department Developing an IT Strategy Starting Your New Job The First 100 Days etc Managing Operations Cut Over into Operations Agile Scrum Project Management IT Portfolio Management The IT Organization etc Introduction to Project Management The Project Management and Information Technology Context The Project Management Process Groups A Case Study Project Integration Management Project Scope Management Project Time Management Project Cost Management Project Quality Management Project Human Resource Management Project Communications Management Project Risk Management Project Procurement Management Project Stakeholder Management 50 Models for Strategic Thinking English Vocabulary For Computers and Information Technology Duration 12 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link   *IT Consultant Diploma - City of London College of Economics - 12 months - 100% online / self-paced* City of London College of Economics, Overview This course deals with everything you need to know to become a successful IT Consultant Content Business Process Management Human Resource Management IT Manager s Handbook Principles of Marketing The Leadership Information Systems and Information Technology IT Project Management Duration 12 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link   **Computing Handbook, Third Edition** Heikki Topi,Allen Tucker,2014-05-14 Computing Handbook Third Edition Information Systems and Information Technology demonstrates the richness and breadth of the IS and IT disciplines The second volume of this popular handbook explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management Like

the first volume this second volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century *Key Technologies for Data Management* Howard Williams,2004-06-25 This book constitutes the refereed proceedings of the 21st British National Conference on Databases BNCOD 2004 held in Edinburgh Scotland UK in July 2004 The 21 revised full papers presented together with an invited paper and the abstract of an invited talk were carefully reviewed and selected from more than 70 submissions The papers are organized in topical sections on data streams integration and heterogeneity data analytics and manipulation XML interfaces and visualization spatial data and TLAD workshop papers **Advances in Databases** Suzanne M. Embury,1998-06-15 This book consists of the refereed proceedings of the 15th British National Conference on Databases BNCOD 15 held in London in July 1997 The 12 revised full papers presented were selected from more than 30 submissions Also included are 10 poster presentations and the invited lecture on The Role of Intelligent Software Agents in Advanced Information Systems by Larry Kerschberg The papers are organized in topical sections on transaction processing optimization object orientation and the Internet and database integration Social Media Retrieval Naeem Ramzan,Roelof van Zwol,Jong-Seok Lee,Kai Clüver,Xian-Sheng Hua,2012-12-05 This comprehensive text reference examines in depth the synergy between multimedia content analysis personalization and next generation networking The book demonstrates how this integration can result in robust personalized services that provide users with an improved multimedia centric quality of experience Each chapter offers a practical step by step walkthrough for a variety of concepts components and technologies relating to the development of applications and services Topics and features introduces the fundamentals of social media retrieval presenting the most important areas of research in this domain examines the important topic of multimedia tagging in social environments including geo tagging discusses issues of personalization and privacy in social media reviews advances in encoding compression and network architectures for the exchange of social media information describes a range of applications related to social media Soft Computing Applications for Database Technologies: Techniques and Issues Anbumani, K.,2010-06-30 The digital revolution and the explosive growth of the internet have helped the collection of huge amounts of useful data of diverse characteristics which is a valuable and intangible asset in any business of today This book treats the new emerging discipline of soft computing which exploits this data through tolerance for imprecision and uncertainty to achieve solutions for complex problems Soft computing methodologies include fuzzy sets neural networks genetic algorithms Bayesian belief networks and rough sets which are explored in detail through case studies and in depth research The advent of soft computing marks a significant paradigm shift in computing with a wide range of applications and techniques which are presented and discussed in the chapters of this book Similarity Search and Applications Giuseppe

Amato,Richard Connor,Fabrizio Falchi,Claudio Gennaro,2015-10-06 This book constitutes the proceedings of the 8th International Conference on Similarity Search and Applications SISAP 2015 held in Glasgow UK in October 2015 The 19 full papers 12 short and 9 demo and poster papers presented in this volume were carefully reviewed and selected from 68 submissions They are organized in topical sections named improving similarity search methods and techniques metrics and evaluation applications and specific domains implementation and engineering solutions posters demo papers   Advanced Database Architecture and Management Mr. Rohit Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels   **Integrating Metaheuristics in Computer Vision for Real-World Optimization Problems** Shubham Mahajan,Kapil Joshi,Amit Kant Pandit,Nitish Pathak,2024-08-01 A comprehensive book providing high quality research addressing challenges in theoretical and application aspects of soft computing and machine learning in image processing and computer vision Researchers are working to create new algorithms that combine the methods provided by CI approaches to solve the problems of image processing and computer vision such as image size noise illumination and security The 19 chapters in this book examine computational intelligence CI approaches as alternative solutions for automatic computer vision and image processing systems in a wide range of applications using machine learning and soft computing Applications highlighted in the book include diagnostic and therapeutic techniques for ischemic stroke object detection tracking face detection and recognition computational based strategies for drug repositioning and improving performance with feature selection extraction and learning methods capable of retrieving photometric and geometric transformed images concepts of trading the cryptocurrency market based on smart price action strategies comparative evaluation and prediction of exoplanets using machine learning methods the risk of using failure rate with the help of MTTF and MTBF to calculate reliability a detailed description of various techniques using edge detection algorithms machine learning in smart houses the strengths and limitations of swarm intelligence and computation how to use bidirectional LSTM for heart arrhythmia detection a comprehensive study of content based image retrieval techniques for feature extraction machine learning approaches to understanding angiogenesis handwritten image enhancement based on neutroscopic fuzzy Audience The book has been designed for researchers engineers graduate and post graduate students wanting to learn more about the theoretical and application aspects of soft computing and machine learning in image processing and computer vision   **KI 2008: Advances in Artificial Intelligence** Andreas Dengel,Karsten Berns,Thomas M. Breuel,Frank Bomarius,Thomas R. Roth-Berghofer,2008-09-16 KI 2008 was the 31st Annual German Conference on Arti cial Intelligence held September 23 26 at the University of Kaiserslautern and the German Research Center for Arti cial Intelligence DFKI GmbH in Kaiserslautern Germany The conference series started in 1975 with the German Workshop on AI

GWAI which took place in Bonn and represents the rst forum of its type for the German AI Community Over the years AI has become a major eld in c puter scienceinGermanyinvolvinga numberof successfulprojects thatreceived much international attention Today KI conferences are international forums where participants from academia and industry from all over the world meet to exchange their recent research results and to discuss trends in the eld Since 1993 the meeting has been called the Annual German Conference on Arti cial Intelligence designated by the German acronym KI This volume contains the papers selected out of 77 submissions including a number of submissions from outside German speaking countries In total 15 submissions 19% were accepted for oral and 30 39% for poster presentation Oralpresentationsattheconferenceweresingletrack Becauseofthis thechoice of presentation form oral poster was based on how well reviews indicated that the paper would t into one or the other format The proceedings allocate the same space to both types of papers In addition we selected six papers that show high application potential scribing systems or prototypical implementations of innovative AI technologies They are also included in this volume as two page extended abstracts

   Encyclopedia of Microcomputers Allen Kent,James G. Williams,2002-01-30 This volume contains information about the automatic acquisition of biographic knowledge from encyclopedic texts Web interaction and the navigation problem in hypertext   *Visual Database Systems 3* Stefano Spaccapietra,Ramesh Jain,2013-06-05 Both the way we look at data through a DBMS and the nature of data we ask a DBMS to manage have drastically evolved over the last decade moving from text to images and to sound to a lesser extent Visual representations are used extensively within new user interfaces Powerful visual approaches are being experimented for data manipulation including the investigation of three dimensional display techniques Similarly sophisticated data visualization techniques are dramatically improving the understanding of the information extracted from a database On the other hand more and more applications use images as basic data or to enhance the quality and richness of data manipulation services Image management has opened a wide area of new research topics in image understanding and analysis The IFIP 2 6 Working Group on Databases strongly believes that a significant mutual enrichment is possible by confronting ideas concepts and techniques supporting the work of researcher and practitioners in the two areas of visual interfaces to DBMS and DBMS management of visual data For this reason IFIP 2 6 has launched a series of conferences on Visual Database Systems The first one has been held in Tokyo 1989 VDB 2 was held in Budapest 1991 This conference is the third in the series As the preceding editions the conference addresses researchers and practitioners active or interested in user interfaces human computer communication knowledge representation and management image processing and understanding multimedia database techniques and computer vision   *Big Data* Kuan-Ching Li,Hai Jiang,Laurence T. Yang,Alfredo Cuzzocrea,2015-02-23 As today s organizations are capturing exponentially larger amounts of data than ever now is the time for organizations to rethink how they digest that data Through advanced algorithms and analytics techniques organizations can harness this data discover hidden patterns and use

the newly acquired knowledge to achieve competitive advantages Pre **Intelligent Virtual World** Timothy K. Shih,Paul P. Wang,2004 In recent years we have witnessed an explosive growth in multimediacomputing communication and applications This revolution istransforming the way people live work and interact with each other and is impacting the way business government services education entertainment and health care operate This important book summarizes recent research topics focusing onfour major areas 1 intelligent content based information retrievaland virtual world 2 quality of services of multimedia data 3 intelligent techniques for distance education and 4 intelligentagents for e commerc **Nearest Neighbor Search:** Apostolos N. Papadopoulos,Yannis Manolopoulos,2006-11-22 Modern applications are both data and computationally intensive and require the storage and manipulation of voluminous traditional alphanumeric and nontraditional data sets images text geometric objects time series Examples of such emerging application domains are Geographical Information Systems GIS Multimedia Information Systems CAD CAM Time Series Analysis Medical Information Sstems On Line Analytical Processing OLAP and Data Mining These applications pose diverse requirements with respect to the information and the operations that need to be supported From the database perspective new techniques and tools therefore need to be developed towards increased processing efficiency This monograph explores the way spatial database management systems aim at supporting queries that involve the space characteristics of the underlying data and discusses query processing techniques for nearest neighbor queries It provides both basic concepts and state of the art results in spatial databases and parallel processing research and studies numerous applications of nearest neighbor queries

Decoding **Searching Multimedia Databases By Content**: Revealing the Captivating Potential of Verbal Expression

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