

Multimedia Systems and Applications

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Multimedia Database Retrieval

Technology and Applications

 Springer

Multimedia Database Retrieval Technology And Applications Multimedia Systems And Applications

Valery A. Petrushin, Latifur Khan



Multimedia Database Retrieval Technology And Applications Multimedia Systems And Applications:

Multimedia Database Retrieval Paisarn Muneesawang, Ning Zhang, Ling Guan, 2014-10-25 This book explores multimedia applications that emerged from computer vision and machine learning technologies These state of the art applications include MPEG 7 interactive multimedia retrieval multimodal fusion annotation and database re ranking The application oriented approach maximizes reader understanding of this complex field Established researchers explain the latest developments in multimedia database technology and offer a glimpse of future technologies The authors emphasize the crucial role of innovation inspiring users to develop new applications in multimedia technologies such as mobile media large scale image and video databases news video and film forensic image databases and gesture databases With a strong focus on industrial applications along with an overview of research topics *Multimedia Database Retrieval Technology and Applications* is an indispensable guide for computer scientists engineers and practitioners involved in the development and use of multimedia systems It also serves as a secondary text or reference for advanced level students interested in multimedia technologies

Multimedia Technologies and Applications for the 21st Century Borko Furht, 1997-11-30 *Multimedia Technologies and Applications for the 21st Century* Visions of World Experts presents contributions from leading researchers and experts describing their current research and their views of the future trends in the field The book consists of thirteen chapters in five parts These chapters tackle a number of critical issues in distributed multimedia systems and applications from VLSI processors that support multimedia and multimedia servers through multimedia databases and multimedia networks and communications to merging multimedia applications Only a few years ago multimedia seemed like a brand new research field and an emerging new industry Today at the edge of the 21st century multimedia research is coming of age and the multimedia industry has significantly grown with the total market estimated to be about 50 billion Several years ago it was felt that the digital media revolution had just started however the seeds had been sown long before Fundamental technologies such as interactive laser disks video games and electronic encyclopedias were invented in the 1970s and 80s They represented the seeds for current hot applications such as digital libraries video on demand interactive television and videoconferencing Another aspect of the digital media revolution is the formation of a new media industry composed of computer entertainment communication and consumer electronics companies Many industry segments are currently involved in creating new products and services positioning themselves for the 21st century They include telephone cable and satellite TV companies communication equipment companies TV and radio broadcasters on line Internet service providers cable channels movie studios record companies book publishers CD ROM title creators Internet tool vendors multimedia software tools companies computer companies general software tools companies computer add on vendors semiconductor vendors and consumer electronics vendors *Multimedia Technologies and Applications for the 21st Century* Visions of World Experts should stimulate the curiosity of its readers and inspire new technological breakthroughs in this exciting field It serves as a

valuable reference for system designers engineers programmers and managers who are involved in multimedia systems the Internet and their applications This book can also be used as a textbook for advanced courses on multimedia in engineering curricula

Multimedia Technologies: Concepts, Methodologies, Tools, and Applications Syed, Mahbubur Rahman, 2008-06-30 This book offers an in depth explanation of multimedia technologies within their many specific application areas as well as presenting developing trends for the future Provided by publisher

Handbook of Internet and Multimedia Systems and Applications Borko Furht, 1998-12-29 Today multimedia applications on the Internet are still in their infancy They include personalized communications such as Internet telephone and videophone and interactive applications such as video on demand videoconferencing distance learning collaborative work digital libraries radio and television broadcasting and others Handbook of Internet and Multimedia Systems and Applications a companion to the author's Handbook of Multimedia Computing probes the development of systems supporting Internet and multimedia applications Part one introduces basic multimedia and Internet concepts user interfaces standards authoring techniques and tools and video browsing and retrieval techniques Part two covers multimedia and communications systems including distributed multimedia systems visual information systems multimedia messaging and news systems conference systems and many others Part three presents contemporary Internet and multimedia applications including multimedia education interactive movies multimedia document systems multimedia broadcasting over the Internet and mobile multimedia

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

Multimedia Database in Perspective Peter M.G. Apers, Henk M. Blanken, Maurice A.W. Houtsma, 2012-12-06 During the last decade multimedia has emerged as a major research and development area Pushed by advanced technology like huge capacity storage devices fast networks and powerful work stations new applications have arisen Many definitions of multimedia systems exist one of them being computer systems that support interactive use of at least one of the following information sources graphics image voice sound and video These systems have caused a boom in the world of entertainment but also in other business areas great opportunities for novel products and services are available The size of multimedia data is often huge and the storage of huge

amounts of data is a task normally allocated to database management systems. Although some modern database management systems offer facilities to support development of multi media applications many problems related to multimedia support are still not well understood. This book reports on research efforts to solve some of these problems. An introductory knowledge of databases and also of operating systems and network technology is assumed. The book is very suitable as material for courses at senior or graduate level but also for upgrading the skills of computer scientists working on database management systems multimedia systems or applications. The book consists of four parts. Part I is called Requirements for a Multimedia Database and comprises chapters one to three. Chapter one presents an outline of the book. *Multimedia Database Management Systems* B. Prabhakaran, 2012-12-06. Multimedia Database Management Systems presents the issues and the techniques used in building multimedia database management systems. Chapter 1 provides an overview of multimedia databases and underlines the new requirements for these applications. Chapter 2 discusses the techniques used for storing and retrieving multimedia objects. Chapter 3 presents the techniques used for generating metadata for various media objects. Chapter 4 examines the mechanisms used for storing the index information needed for accessing different media objects. Chapter 5 analyzes the approaches for modeling media objects both their temporal and spatial characteristics. Object oriented approach with some additional features has been widely used to model multimedia information. The book discusses two systems that use object oriented models OVID Object Video Information Database and Jasmine. The models for representing temporal and spatial requirements of media objects are then studied. The book also describes authoring techniques used for specifying temporal and spatial characteristics of multimedia databases. Chapter 6 explains different types of multimedia queries the methodologies for processing them and the language features for describing them. The features offered by query languages such as SQL MM Structured Query Language for Multimedia PICQUERY and Video SQL are also studied. Chapter 7 deals with the communication requirements for multimedia databases. A client accessing multimedia data over computer networks needs to identify a schedule for retrieving various media objects composing the database. The book identifies possible ways for generating a retrieval schedule. Chapter 8 ties together the techniques discussed in the previous chapters by providing a simple architecture of a distributed multimedia database management system. Multimedia Database Management Systems can be used as a text for graduate students and researchers working in the area of multimedia databases. In addition the book serves as essential reading material for computer professionals who are in or moving to the area of multimedia databases.

Multimedia Technologies Atul P. Godse, 2020-12-01. The fast emerging field of multimedia communications involves the use of various media types text images speech audio and video in a wide range of subject areas. The book presents these subject areas in depth that enables the reader to build up a thorough understanding of the technical issues associated with this rapidly evolving subject. The book begins with goals objectives and characteristics of multimedia multimedia building blocks multimedia architecture distributed multimedia applications streaming technologies multimedia database systems

multimedia authoring tools and applications It describes image and audio fundamentals and their file formats image compression and audio compression techniques It also describes video signal formats video transmission standards and video file formats It also explains types of animations principles of animation animation techniques and introduces OpenGL primitives shadowing techniques and rendering The book also covers advanced multimedia topics such as virtual reality multimedia communication multimedia networking quality data transmission and multimedia in Android **Multimedia**

Database Systems V.S. Subrahmanian,Sushil Jajodia,2012-12-06 With the rapid growth in the use of computers to manipulate process and reason about multimedia data the problem of how to store and retrieve such data is becoming increasingly important Thus although the field of multimedia database systems is only about 5 years old it is rapidly becoming a focus for much excitement and research effort Multimedia database systems are intended to provide unified frameworks for requesting and integrating information in a wide variety of formats such as audio and video data document data and image data Such data often have special storage requirements that are closely coupled to the various kinds of devices that are used for recording and presenting the data and for each form of data there are often multiple representations and multiple standards all of which make the database integration task quite complex Some of the problems include what a multimedia database query means what kinds of languages to use for posing queries how to develop compilers for such languages how to develop indexing structures for storing media on ancillary devices data compression techniques how to present and author presentations based on user queries Although approaches are being developed for a number of these problems they have often been ad hoc in nature and there is a need to provide a principled theoretical foundation

Multimedia Jose L. Encarnacao,James D. Foley,2012-12-06 Multimedia computing is a logical next step by which computing technology will become ever more useful and ubiquitous in our everyday lives From the perspective of technical challenges multimedia affects nearly every aspect of computer hardware and software The long heralded marriage of computing communications and information services is now being consummated and is manifesting itself in literally dozens of new alliances between companies ranging from semiconductors to cable TV from newspapers and telephone companies to computer hardware and software Representation and Retrieval of Visual Media in Multimedia Systems HongJiang

Zhang,Philippe Aigrain,Dragutin Petkovic,2007-08-20 Representation and Retrieval of Visual Media in Multimedia Systems brings together in one place important contributions and up to date research results in this important area Representation and Retrieval of Visual Media in Multimedia Systems serves as an excellent reference providing insight into some of the most important research issues in the field Multimedia Systems and Content-based Image Retrieval Sagarmay Deb,2004-01-01

Business intelligence has always been considered an essential ingredient for success However it is not until recently that the technology has enabled organizations to generate and deploy intelligence for global competition These technologies can be leveraged to create the intelligent enterprises of the 21st century that will not only provide excellent and customized services

to their customers but will also create business efficiency for building relationships with suppliers and other business partners on a long term basis Creating such intelligent enterprises requires the understanding and integration of diverse enterprise components into cohesive intelligent systems Anticipating that future enterprises need to become intelligent Intelligent Enterprises of the 21st Century brings together the experiences and knowledge from many parts of the world to provide a compendium of high quality theoretical and applied concepts methodologies and techniques that help diffuse knowledge and skills required to create and manage intelligent enterprises of the 21st century for gaining sustainable competitive advantage in a global environment This book is a comprehensive compilation of the state of the art vision and thought processes needed to design and manage globally competitive business organizations **Multimedia Networking:**

Technology, Management and Applications Syed, Mahbubur Rahman, 2001-07-01 In recent years rapid Internet growth has pushed the development of new multimedia applications in all aspects of life such as entertainment communication collaborative work and electronic commerce Future applications will make use of different technologies like voice data and video but in order to make such a wide variety of multimedia applications successful a number of technology and management issues must be addressed Multimedia Networking Technology Management and Applications addresses the dynamic and efficient uses of resources a fundamental aspect of multimedia networks Geared toward professionals educators and students alike this exciting new book will detail current research and the future direction of multimedia networking

Advanced Software Applications in Japan Edward A. Feigenbaum, Elaine Rich, Gio Wiederhold, Michael G Harrison, 1995-01-01 Advanced Software Applications in Japan **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 Database Management Systems B.** Thuraisingham, Kingsley C. Nwosu, P. Bruce Berra, 2012-12-06 Multimedia Database Management Systems brings together in one place important contributions and up to date research results in this important area Multimedia Database Management Systems serves as an excellent reference providing insight into some of the most important research issues in the field

Readings in Multimedia Computing and Networking Kevin Jeffay, Hong Jiang Zhang, 2002 Compiled for professionals working in designing building and implementing multimedia related hardware and applications this volume examines media and content processing systems based solutions and networking support for multimedia data types 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

Design and Management of Multimedia Information Systems: Opportunities and Challenges Syed, Mahbubur

Rahman,2000-07-01 Multimedia technology has the potential to transform end user computing from interactive text and graphics models into something more compatible with the digital and electronic world of the new century This book aims to help technology professionals gain an understanding and perspective on areas related to multimedia computing and communication while addressing the major issues and challenges in the design and management of multimedia information systems

Interactive Distributed Multimedia Systems and Services Berthold Butscher,Eckhard Moeller,Herwart Pusch,1996-02-26 This book constitutes the refereed proceedings of the first European Workshop on Interactive Distributed Multimedia Systems and Services IDMS 96 held in Berlin Germany in March 1996 The 21 revised papers included were carefully selected for presentation at the workshop they examine current and new approaches to interactive distributed multimedia systems and services from different points of view including research and development management and users Among the topics addressed are application development support multimedia services on demand multimedia conferencing multimedia networking continuous media streams multimedia experiments

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