

# CONTINUOUS MEDIA DATABASES

*edited by*  
Aidong Zhang  
Avi Silberschatz  
Sharad Mehrotra

Kluwer Academic Publishers

# Continuous Media Databases

**Bhavani Thuraisingham**



## **Continuous Media Databases:**

**Continuous Media Databases** Aidong Zhang, Avi Silberschatz, Sharad Mehrotra, 2012-12-06 Continuous Media Databases brings together in one place important contributions and up to date research results in this fast moving area Continuous Media Databases serves as an excellent reference providing insight into some of the most challenging research issues in the field      Nontraditional Database Systems Yahiko Kambayashi, Katsumi Tanaka, Masaru Kitsuregawa, Akifumi Makinouchi, Shunsuke Uemura, Yoshifumi Masunaga, 2003-09-02 Nontraditional Database Systems is the fifth volume in the Advanced Information Processing Technology series It brings together the results of research carried out by the Japanese database research community in the field of nontraditional database systems The book examines nontraditional types of applications data types systems and environments together with high performance architecture to support nontraditional applications such as web mining data engineering and object processing      *Database Systems For Advanced Applications '95 - Proceedings Of The Fourth International Conference* Wang Ling Tok, Yoshifumi Masunaga, 1995-03-31 This volume contains three keynote papers and 51 technical papers from contributors around the world on topics in the research and development of database systems such as Data Modelling Object Oriented Databases Active Databases Data Mining Heterogeneous Databases Distributed Databases Parallel Query Processing Multi Media Databases Transaction Management Systems Document Databases Temporal Databases Deductive Databases User Interface and Advanced Database Applications

**Special Issue: Continuous Media Databases** Aidong Zhang, 2000      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 comprehensive reference that will help them design and implement the most complex video database projects Handbook of Video Databases Design and Applications presents a thorough overview in 45 chapters from more than 100 renowned experts in the field This book provides the tools to help overcome the problems of storage cataloging and retrieval by exploring content standardization and other content classification and analysis methods The challenge of these complex problems make this book a must have for video database practitioners in the fields of image and video processing computer vision multimedia systems data mining and many other diverse disciplines      **Multimedia Information Storage and Management** Soon M. Chung, 1996-08-31 Multimedia information systems are quite different from traditional information systems especially in data types modeling delivery and user interface The large size of multimedia data and the high bandwidth requirement of multimedia streams require new storage buffering delivery and networking schemes The presentational nature of multimedia applications requires a proper synchronization between multimedia streams and the composition of multimedia documents in the distributed environment should overcome the heterogeneity of underlying systems This book is edited for

undergraduate and graduate students studying multimedia information and applications researchers and developers of various multimedia software and hardware systems multimedia tool developers user interface designers and network protocol designers by including 17 chapters focused on the following major issues Disk scheduling and storage hierarchy Configuration of multimedia servers and buffer management Delivery scheduling for multimedia streams Supporting user interactions Document modeling and temporal modeling of multimedia data Integrated multimedia information system

*Multimedia Database Systems* Kingsley C. Nwosu, B. Thuraisingham, P. Bruce Berra, 2012-12-06 *Multimedia Database Systems Design and Implementation Strategies* is a compendium of the state of the art research and development work pertaining to the problems and issues in the design and development of multimedia database systems The chapters in the book are developed from presentations given at previous meetings of the International Workshop on Multi Media Data Base Management Systems IW MMDBMS and address the following issues development of adequate multimedia database models design of multimedia database query and retrieval languages design of indexing and organization techniques development of efficient and reliable storage models development of efficient and dependable retrieval and delivery strategies and development of flexible adaptive and reliable presentation techniques

**Current Issues in Databases and Information Systems** Julius Stuller, Jaroslav Pokorny, Bernhard Thalheim, Yoshifumi Masunaga, 2003-06-29 The East European Conference on Advances in Databases and Information Systems ADBIS is the successor of the annual International Workshops with the same title that during 1993 1996 were organized in Russia by the Moscow ACM SIGMOD Chapter Initiated in St Petersburg Russia in 1997 it continued in Poznan Poland in 1998 and in Maribor Slovenia in 1999 The ADBIS Conference became the premier database and information systems conference in Eastern Europe It intended to increase interaction and collaboration between researchers from the East and the West and to provide an internationally recognized tribune for the presentation of research results The International Conference on Database Systems for Advanced Applications DASFAA was first held in Seoul Korea in 1989 to promote database research and development activities in Asian and Australasian countries The Special Interest Group of Database Systems SIGDBS of the Information Processing Society of Japan IPSJ and the Special Interest Group of Database SIGDB of Korea Information Science Society KISS had important roles in the organization of DASFAA Since that time the DASFAA has been held every two years Tokyo in 1991 Daejeon in 1993 Singapore in 1995 Melbourne in 1997 and Taiwan in 1999 The DASFAA became one of the most prestigious international conferences ever held in Asia or Australasia

*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 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

**Video Database Systems** Ahmed K. Elmagarmid, Haitao Jiang, Abdelsalam A. Helal, Anupam Joshi, Magdy Ahmed, 2007-08-23 Great advances have been made in the database field Relational and object oriented databases distributed and client server databases and large scale data warehousing are among the more notable However none of these advances promises to have as great and direct an effect on the daily lives of ordinary citizens as video databases Video databases will provide a quantum jump in our ability to deal with

visual data and in allowing people to access and manipulate visual information in ways hitherto thought impossible Video Database Systems Issues Products and Applications gives practical information on academic research issues commercial products that have already been developed and the applications of the future driving this research and development This book can also be considered a reference text for those entering the field of video or multimedia databases as well as a reference for practitioners who want to identify the kinds of products needed in order to utilize video databases Video Database Systems Issues Products and Applications covers concepts products and applications It is written at a level which is less detailed than that normally found in textbooks but more in depth than that normally written in trade press or professional reference books Thus it seeks to serve both an academic and industrial audience by providing a single source of information about the research issues in the field and the state of the art of practice 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 multimedia 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 Databases And Image Communication - Proceedings Of The Workshop On Mdic 2004** Andrea F Abate, Michele Nappi, Monica Sebillio, 2005-01-19 There is a strong need for advances in the fields of image indexing and retrieval and visual query languages for multimedia databases Image technology is facing both classical and novel problems for the organization and filtering of increasingly large amounts of pictorial data Novel kinds of problems such as indexing and high level content base accessing to image databases human interaction with multimedia systems approaches to multimedia data biometrics data mining computer graphics and augmented reality have grown into real life issues The papers in this proceedings volume relate to the subject matter of multimedia databases and image communication They offer different approaches which help to keep the field of research lively and interesting *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      **Database and Expert Systems Applications** Roland R. Wagner, 1996-08-28 Content Description Includes bibliographical references and index      **Database Systems for Advanced Applications** YoonJoon Lee, Jianzhong Li, Kyu-Young Whang, Doheon Lee, 2004-02-12 The 9th International Conference on Database Systems for Advanced Applications DASFAA 2004 was held during March 17 19 2004 on the beautiful Jeju island of Korea The DASFAA conference provides an international forum for technical discussions among researchers developers and users of database stems from academia business and industry The main focus of DASFAA is on research in database theory development of advanced DBMS technologies and their advanced applications A premier database conference in the Asia Pacific region DASFAA has been held every two years and in many countries in the region To promote the area further and to answer the needs of many participants the steering committee decided to hold the conference annually DASFAA 2004 was the first such annual conference The conference was organized by the Special Interest Group on Databases SIGDB of the Korea Information Science Society and the Advanced Information Technology Research Center AITrc at KAIST an engineering research center of excellence ERC supported by the Korea Science and Engineering Foundation KOSEF We had a number of sponsors who made generous contributions to make the conference successful They are Oracle Korea Samsung SDS Korea Telecom Data Inc the United States Air Force Office of Scientific Research the Asian Office of Aerospace Research Development the Army Research Office Far East and the Korea Advanced Institute of Science and Technology KAIST      *Database and Expert Systems Applications* Mohamed Ibrahim, 2000-08-25 This book constitutes the refereed proceedings of the 11th International Conference on Database and Expert Systems Applications DEXA 2000 held in London in September 2000 The 92 revised full papers presented together with one invited paper were carefully reviewed and selected from a total of 183 submissions The book offers topical sections on object oriented and relational databases multimedia databases fundamentals workflow management systems database security XML advanced databases queries knowledge based systems data warehouses database design and analysis data mining and knowledge discovery web database systems indexing and distributed database systems      *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      **Intelligent Virtual World: Technologies And Applications In Distributed Virtual Environment** Timothy K Shih,Paul P Wang,2004-07-21 In recent years we have witnessed an explosive growth in multimedia computing communication and applications This revolution is transforming 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 on four major areas 1 intelligent content based information retrieval and virtual world 2 quality of services of multimedia data 3 intelligent techniques for distance education and 4 intelligent agents for e commerce This book has been selected for coverage in CC Engineering Computing Technology Index to Scientific Book Contents ISBC      **Query Scheduling and Optimization in Parallel and Multimedia Databases** Minos N. Garofalakis,1998



## Whispering the Secrets of Language: An Mental Quest through **Continuous Media Databases**

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