

## **Multimedia Database Management Systems The Springer International Series In Engineering And Computer Science**

Semantic Models for Multimedia Database Searching and Browsing  
Multimedia Database Management Systems  
Data Management for Multimedia Retrieval  
Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies  
Distributed Multimedia Databases  
On Object-Oriented Database Systems  
International Workshop on Multi-Media Database Management Systems  
Database and Applications Security  
Introduction to Database Management Systems: Methods and Innovations for Multimedia Database Content Management  
Managing and Mining Multimedia Databases  
Multimedia Systems  
Multimedia Database Management Systems  
Managing and Mining Multimedia Databases  
Fundamentals of Database Systems  
Semantic Models for Multimedia Database Searching and Browsing  
Searching Multimedia Databases by Content  
Fundamentals of Relational Database Management Systems  
Database Directions  
Handbook on Data Management in Information Systems  
Encyclopedia of Microcomputers  
Multimedia Database Systems  
Database and Data Communication Network Systems, Three-Volume Set  
Multimedia Databases  
Handbook of Internet and Multimedia Systems and Applications  
Data Management for Multimedia Retrieval  
Multimedia Database Management Systems  
Multimedia Data Management  
Multimedia Database Management Systems  
Multimedia Information Storage and Management  
Multimedia and Imaging Databases  
Multimedia Database Systems  
Principles of Multimedia Database Systems  
Distributed Multimedia Database Technologies Supported by MPEG-7 and MPEG-21  
Multimedia Information Systems  
Distributed Multimedia Databases  
Encyclopedia of Database Technologies and Applications  
Multimedia Databases and Image Communication  
International Workshop on Multi-Media Database Management Systems  
Managing Multimedia and Unstructured Data in the Oracle Database

### **Semantic Models for Multimedia Database Searching and Browsing**

The Handbook provides practitioners, scientists and graduate students with a good overview of basic notions, methods and techniques, as well as important issues and trends across the broad spectrum of data management. In particular, the book covers fundamental topics in the field such as distributed databases, parallel databases, advanced databases, object-oriented databases, advanced transaction management, workflow management, data warehousing, data mining, mobile computing, data integration and the Web. Summing up, the Handbook is a valuable source of information for academics and practitioners who are interested in learning the key ideas in the considered area.

### **Multimedia Database Management Systems**

## Where To Download Multimedia Database Management Systems The Springer International Series In Engineering And Computer Science

This is the first book to provide an in-depth coverage of all the developments, issues and challenges in secure databases and applications. It provides directions for data and application security, including securing emerging applications such as bioinformatics, stream information processing and peer-to-peer computing. Divided into eight sections,

### **Data Management for Multimedia Retrieval**

Traditional database management systems can't handle the demands of managing multimedia data. with the rapid growth of multimedia platforms and the world wide web, database management systems must now process, store, index, and retrieve alphanumeric data, bitmapped and vector-based graphics, and video and audio clips both compressed and uncompressed. The comprehensive, systematic approach of Multimedia Database Management Systems presents you with current and emerging methods for managing the increasing demands of multimedia databases and their inherent design and architecture issues.

### **Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies**

Traditional database management systems can't handle the demands of managing multimedia data. with the rapid growth of multimedia platforms and the world wide web, database management systems must now process, store, index, and retrieve alphanumeric data, bitmapped and vector-based graphics, and video and audio clips both compressed and uncompressed. The comprehensive, systematic approach of Multimedia Database Management Systems presents you with current and emerging methods for managing the increasing demands of multimedia databases and their inherent design and architecture issues.

### **Distributed Multimedia Databases**

### **On Object-Oriented Database Systems**

Affordable and mainstream manipulation of multimedia data types will lead to tremendous growth in imaging and multimedia data in general computing environments. Multimedia and imaging applications can now provide benefits to common business applications by integrating voice, sound, images, animation and digitized video. Ultimately, it will be possible to convert all information that is currently stored on paper, video and film into a digitized environment. This will allow users to organize, search and route multimedia objects over local and wide area networks in real time. The authors'

introductory level presentation of this new class of data types supplies the database technology required for effective manipulation and storage. Multimedia and database experts, Khoshafian and Baker aptly illustrate the ability of multimedia database systems to concurrently share, access, and query large collections of multimedia information. They introduce the elemental concepts of object and relational databases and then apply them to multimedia and imaging databases. Fundamental database topics discussed include querying, transaction support, recovery, security, and storage. This book provides information essential to the incorporation of multimedia databases that will improve the quantity and quality of information manipulated by computer users in many areas including medicine, computer aided design, and information retrieval systems.

### **International Workshop on Multi-Media Database Management Systems**

Introduction to Database Management Systems is designed specifically for a single semester, namely, the first course on Database Systems. The book covers all the essential aspects of database systems, and also covers the areas of RDBMS. The book in

### **Database and Applications Security**

Database and Data Communication Network Systems examines the utilization of the Internet and Local Area/Wide Area Networks in all areas of human endeavor. This three-volume set covers, among other topics, database systems, data compression, database architecture, data acquisition, asynchronous transfer mode (ATM) and the practical application of these technologies. The international collection of contributors was culled from exhaustive research of over 100,000 related archival and technical journals. This reference will be indispensable to engineering and computer science libraries, research libraries, and telecommunications, networking, and computer companies. It covers a diverse array of topics, including: \* Techniques in emerging database system architectures \* Techniques and applications in data mining \* Object-oriented database systems \* Data acquisition on the WWW during heavy client/server traffic periods \* Information exploration on the WWW \* Education and training in multimedia database systems \* Data structure techniques in rapid prototyping and manufacturing \* Wireless ATM in data networks for mobile systems \* Applications in corporate finance \* Scientific data visualization \* Data compression and information retrieval \* Techniques in medical systems, intensive care units

### **Introduction to Database Management Systems:**

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 multimedial 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. Contents: A Context-Aware Framework for Multimodal Document Databases (A Celentano & O Gaggi) Endowing Geographic Information Systems with a Cognitive Level (A De Simone et al.) A Simple Fuzzy Extension to the Search of Documents on the Web (L Āi Lascio et al.) Developing a System for the Retrieval of Melodies from Web Repositories (R Distasi et al.) Fast Face Recognition Using Fractal Range/Domain Classification (D Riccio) A Method for 3D Face Recognition Based on Mesh Normals (S Ricciardi & G Sabatino) High-D Data Visualization Methods via Probabilistic Principal Surfaces for Data Mining Applications (A Staiano et al.) A Study on Recovering the Cloud-Top Height from Infra-Red Video Sequences (A Anzalone et al.) Powerful Tools for Data Mining: Fractals, Power Laws, SVD and More (C Faloutsos) An Unsupervised Shot Classification System for News Video Story Detection (M De Santo et al.) 3D-TV — The Future of Visual Entertainment (M A Magnor) Entropy as a Feature in the Analysis and Classification of Signals (A Casanova et al.)

Readership: Academics and researchers in databases and communication. Keywords: Multimedia Databases; Indexing and High-Level Content-Based; Data Mining; Biometrics; Computer Graphics and Augmented Reality

### **Methods and Innovations for Multimedia Database Content Management**

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.

### **Managing and Mining Multimedia Databases**

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.

### **Multimedia Systems**

While solving numerous database management problems, relational database systems are generally limited to centralized systems supporting only structured data. Now, Database Directions introduces database management technologies and

techniques that take readers beyond the limitations of today's relational database management systems.

## **Multimedia Database Management Systems**

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.

## **Managing and Mining Multimedia Databases**

There is a huge growth in multimedia databases and the influence is spreading far and wide. Existing and future practitioners working in web technology, e-commerce, media-on demand, surveillance systems, GIS and telemedicine as well as traditional database management systems will need to know much more about the workings of multi media databases. And this is the book they will need as it will answer all their questions.

## **Fundamentals of Database Systems**

In the last few years we have observed an explosive growth of 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 healthcare are operating. Yet, several issues related to modeling, specification, analysis and design of distributed multimedia database systems and multimedia information retrieval are still challenging to both researchers and practitioners. Distributed Multimedia Databases: Techniques and Applications points out these challenges and provides valuable suggestions toward the necessary solutions, by focusing on multimedia database techniques.

## **Semantic Models for Multimedia Database Searching and Browsing**

Multimedia Information Systems brings together in one place important contributions and up-to-date research results in this

fast moving area. Multimedia Information Systems serves as an excellent reference, providing insight into some of the most challenging research issues in the field.

## **Searching Multimedia Databases by Content**

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.

## **Fundamentals of Relational Database Management Systems**

In the last few years we have observed an explosive growth of 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 healthcare are operating. Yet, several issues related to modeling, specification, analysis and design of distributed multimedia database systems and multimedia information retrieval are still challenging to both researchers and practitioners. Distributed Multimedia Databases: Techniques and Applications points out these challenges and provides valuable suggestions toward the necessary solutions, by focusing on multimedia database techniques.

## **Database Directions**

Here is the authoritative handbook on multimedia metadata and data management. In one volume, it gathers a wealth of information from the field's leading international experts in this emerging specialty. Multimedia data -- text, image, voice, and video -- poses unique challenges to product developers and database professionals in midsized to giant organizations.

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They need to know how multimedia can be effectively stored, accessed, and integrated into applications. The key is "metadata", which acts as an umbrella for multimedia data and allows it to be modeled and managed. In this invaluable guide, well-known contributors from the U.S., Japan, and Europe examine the metadata concept, present relevant standards, and discuss its global use in video databases, speech documents, satellite and medical imaging, and other applications.

### **Handbook on Data Management in Information Systems**

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.

### **Encyclopedia of Microcomputers**

Until recently, databases contained easily indexed numbers and text. Today, in the age of powerful, graphically based computers, and the world wide web, databases are likely to contain a much greater variety of data forms, including images, sound, video clips, and even handwritten documents. When multimedia databases are the norm, traditional methods of working with databases no longer apply. How do you query a video library, or an image database containing x-rays, or sounds in an audio database? Principles of Multimedia Database Systems explains how to work with these new multimedia data forms. It is the first comprehensive treatment of the skills and techniques required to build, maintain, and query multimedia databases. This book presents the mix of techniques necessary for working with multimedia databases, including synthetic solutions for the design and deployment of multimedia database systems. Because rapid technological developments are constantly changing the landscape of multimedia databases, the book teaches basic theoretical principles applicable to any database. \* Covers the major issues of multimedia database design, with a strong focus on distributed multimedia databases. \* Discusses important topics including how to organize the vast data types, storage and retrieval, and creation and delivery of multimedia presentations. \* Organized around the lively scenario of a crime-fighting

database that evolves as new concepts are introduced. \* Includes numerous exercises and suggestions for programming projects. \* Additional materials on the web include updates, on-line supplements, and links to downloadable software.

## **Multimedia Database Systems**

Multimedia data require specialised management techniques because the representations of colour, time, semantic concepts, and other underlying information can be drastically different from one another. This textbook on multimedia data management techniques gives a unified perspective on retrieval efficiency and effectiveness. It provides a comprehensive treatment, from basic to advanced concepts, that will be useful to readers of different levels, from advanced undergraduate and graduate students to researchers and to professionals. After introducing models for multimedia data (images, video, audio, text, and web) and for their features, such as colour, texture, shape, and time, the book presents data structures and algorithms that help store, index, cluster, classify, and access common data representations. The authors also introduce techniques, such as relevance feedback and collaborative filtering, for bridging the 'semantic gap' and present the applications of these to emerging topics, including web and social networking.

## **Database and Data Communication Network Systems, Three-Volume Set**

An Analysis of the Pre-Physical Database Design Heuristics to Thermal Investigations of Ics and Microstructures

## **Multimedia Databases**

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 database management have exploded during the past decade. To date, however, there has been little information available on providing a complete set of services for multimedia databases, including their management, mining, and integration on the Web for electronic enterprises. Managing and Mining Multimedia Databases fills that gap. Focusing on managing and mining multimedia databases for electronic commerce and business, it explores database management system techniques for text, image, audio, and video databases. It addresses the issues and challenges of mining multimedia databases to extract information, and discusses the directions and challenges related to integrating multimedia databases for the Web, particularly for e-business. This book provides a comprehensive overview of multimedia data management and mining technologies, from the underlying concepts, architectures, and data models for multimedia database systems to the technologies that support multimedia data management on the Web, privacy issues, and emerging standards, prototypes,

and products. Designed for technical managers, executives, and technologists, it offers your only opportunity to learn about both multimedia data management and multimedia data mining within a single book.

## **Handbook of Internet and Multimedia Systems and Applications**

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.

## **Data Management for Multimedia Retrieval**

Semantic Models for Multimedia Database Searching and Browsing begins with the introduction of multimedia information applications, the need for the development of the multimedia database management systems (MDBMSs), and the important issues and challenges of multimedia systems. The temporal relations, the spatial relations, the spatio-temporal relations, and several semantic models for multimedia information systems are also introduced. In addition, this book discusses recent advances in multimedia database searching and multimedia database browsing. More specifically, issues such as image/video segmentation, motion detection, object tracking, object recognition, knowledge-based event modeling, content-based retrieval, and key frame selections are presented for the first time in a single book. Two case studies consisting of two semantic models are included in the book to illustrate how to use semantic models to design multimedia information systems. Semantic Models for Multimedia Database Searching and Browsing is an excellent reference and can be used in advanced level courses for researchers, scientists, industry professionals, software engineers, students, and general readers who are interested in the issues, challenges, and ideas underlying the current practice of multimedia presentation, multimedia database searching, and multimedia browsing in multimedia information systems.

## **Multimedia Database Management Systems**

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### **Multimedia Data Management**

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### **Multimedia Database Management Systems**

Multimedia Systems discusses the basic characteristics of multimedia operating systems, networking and communication, and multimedia middleware systems. The overall goal of the book is to provide a broad understanding of multimedia systems and applications in an integrated manner: a multimedia application and its user interface must be developed in an integrated fashion with underlying multimedia middleware, operating systems, networks, security, and multimedia devices. Fundamental characteristics of multimedia operating and distributed communication systems are presented, especially scheduling algorithms and other OS supporting approaches for multimedia applications with soft-real-time deadlines,

multimedia file systems and servers with their decision algorithms for data placement, scheduling and buffer management, multimedia communication, transport, and streaming protocols, services with their error control, congestion control and other Quality of Service aware and adaptive algorithms, synchronization services with their skew control methods, and group communication with their group coordinating algorithms and other distributed services.

## **Multimedia Information Storage and Management**

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.

## **Multimedia and Imaging Databases**

This book is written in simple, easy to understand format with lots of screenshots and step-by-step explanations. If you are an Oracle database administrator, Museum curator, IT manager, Developer, Photographer, Intelligence team member, Warehouse or Software Architect then this book is for you. It covers the basics and then moves to advanced concepts. This will challenge and increase your knowledge enabling all those who read it to gain a greater understanding of multimedia and how all unstructured data is managed.

## **Multimedia Database Systems**

### **Principles of Multimedia Database Systems**

"This book highlights original research on new theories, algorithms, technologies, system design, and implementation in multimedia data engineering and management with an emphasis on automatic indexing, tagging, high-order ranking, and rule mining"--Provided by publisher.

## **Distributed Multimedia Database Technologies Supported by MPEG-7 and MPEG-21**

"Addresses the evolution of database management, technologies and applications along with the progress and endeavors of new research areas."--P. xiii.

## **Multimedia Information Systems**

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.

## **Distributed Multimedia Databases**

Object-oriented database systems have been approached with mainly two major intentions in mind, namely to better support new application areas including CAD/CAM, office automation, knowledge engineering, and to overcome the 'impedance mismatch' between data models and programming languages. This volume gives a comprehensive overview of developments in this flourishing area of current database research. Data model and language aspects, interface and database design issues, architectural and implementation questions are covered. Although based on a series of workshops, the contents of this book has been carefully edited to reflect the current state of international research in object oriented

database design and implementation.

## **Encyclopedia of Database Technologies and Applications**

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.

## **Multimedia Databases and Image Communication**

Annotation Considering the new challenges and opportunities that the proliferation of multi-media computing has opened for manipulating and presenting information, 21 papers cover data storage and display, indexing and retrieval, multimedia databases, managing video data, hypermedia/object-oriented databases, and distributed systems. No subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

## **International Workshop on Multi-Media Database Management Systems**

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 database management have exploded during the past decade. To date, however, there has been little information available on providing a complete set of services for multimedia databases, including their management, mining, and integration on the Web for electronic enterprises. Managing and Mining Multimedia Databases fills that gap. Focusing on managing and mining multimedia databases for electronic commerce and business, it explores database management system techniques for text, image, audio, and video databases. It addresses the issues and challenges of mining multimedia databases to extract

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information, and discusses the directions and challenges related to integrating multimedia databases for the Web, particularly for e-business. This book provides a comprehensive overview of multimedia data management and mining technologies, from the underlying concepts, architectures, and data models for multimedia database systems to the technologies that support multimedia data management on the Web, privacy issues, and emerging standards, prototypes, and products. Designed for technical managers, executives, and technologists, it offers your only opportunity to learn about both multimedia data management and multimedia data mining within a single book.

### **Managing Multimedia and Unstructured Data in the Oracle Database**

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

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