



# Management Information Systems

## Chapter 6 Foundations of Business Intelligence: Databases and Information Management

### The Database Approach to Data Management

- **Object-Oriented DBMS (OODBMS)**
  - Stores data and procedures as objects
  - Capable of managing graphics, multimedia, Java applets
  - Relatively slow compared with relational DBMS for processing large numbers of transactions
  - **Hybrid object-relational DBMS:** Provide capabilities of both OODBMS and relational DBMS

# Chapter 9 Object Oriented Multimedia Dbms

**Michael Brown**



## Chapter 9 Object Oriented Multimedia Dbms:

Engineering Informatics Benny Raphael, Ian F. C. Smith, 2013-05-29 Computers are ubiquitous throughout all life cycle stages of engineering from conceptual design to manufacturing maintenance repair and replacement. It is essential for all engineers to be aware of the knowledge behind computer based tools and techniques they are likely to encounter. The computational technology which allows engineers to carry out design modelling visualisation manufacturing construction and management of products and infrastructure is known as Computer Aided Engineering CAE. Engineering Informatics Fundamentals of Computer Aided Engineering 2nd Edition provides the foundation knowledge of computing that is essential for all engineers. This knowledge is independent of hardware and software characteristics and thus it is expected to remain valid throughout an engineering career. This Second Edition is enhanced with treatment of new areas such as network science and the computational complexity of distributed systems. Key features: Provides extensive coverage of almost all aspects of Computer Aided Engineering outlining general concepts such as fundamental logic definition of engineering tasks and computational complexity. Every chapter revised and expanded following more than ten years of experience teaching courses on the basis of the first edition. Covers numerous representation frameworks and reasoning strategies. Considers the benefits of increased computational power parallel computing and cloud computing. Offers many practical engineering examples and exercises with lecture notes available for many of the topics. Chapters from the ASCE Technical Council on Computing and Information Technology Global Centre of Excellence in Computing [www.asceglobalcenter.org](http://www.asceglobalcenter.org) providing a valuable resource for lecturers. Accompanied by a website hosting updates and solutions. Engineering Informatics Fundamentals of Computer Aided Engineering 2nd Edition provides essential knowledge on computing theory in engineering contexts for students researchers and practising engineers.

**Introduction to Database Management Systems:** Kahate, Atul, 2006 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 *The Principles of Business Computing* M. G. Eccles, F. W. Julyan, G. Boot, J. P. Van Belle, 2000-01-31. Written by four prominent academics this is one of South Africa's best selling computer books. It was written specifically for those managing or using computers for the first time be they accountants lawyers or other business people. It is also an ideal introduction to business computing for the commerce student.

*Information Organization and Databases* Katsumi Tanaka, Shahram Ghandeharizadeh, Yahiko Kambayashi, 2012-12-06 Information Organization and Databases Foundations of Data Organization provides recent developments of information organization technologies that have become crucial not only for data mining applications and information visualization but also for treatment of semistructured data spatio temporal data and multimedia data that are not necessarily stored in conventional DBMSs. Information Organization and Databases Foundations of Data Organization presents semistructured data addressing XML query languages and integrity constraints.

focusing on advanced technologies for organizing web data for effective retrieval multimedia database organization emphasizing video data organization and data structures for similarity retrieval technologies for data mining and data warehousing index organization and efficient query processing issues spatial data access and indexing organizing and retrieval of WWW and hypermedia Information Organization and Databases Foundations of Data Organization is a resource for database practitioners database researchers designers and administrators of multimedia information systems and graduate level students in the area of information retrieval and or databases wishing to keep abreast of advances in the information organization technologies

*Database Directions* James A. Larson, 1995 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

**Spatio-Temporal Databases** Manolis Koubarakis, Timos Sellis, Andrew U. Frank, Stéphane Grumbach, Ralf Hartmut Güting, Christian S. Jensen, Nikos Lorentzos, Yannis Manolopoulos, Enrico Nardelli, Barbara Pernici, Hans-Jörg Schek, Michel Scholl, Babis Theodoulidis, Nectaria Tryfona, 2003-10-02 A summary of research carried out in the CHOROCHRONOS Project established as an EC funded Training and Mobility Research Network with the objective of studying the design implementation and application of spatio temporal database management systems The nine coherent chapters by leading research groups are written in a tutorial style making the research contributions of the project accessible to a wider audience interested in spatio temporal information processing Following an introductory overview the book presents chapters on ontologies for spatio temporal databases conceptual models spatio temporal models and languages access methods and query processing architectures and implementation of spatio temporal DBMS interactive spatio temporal documents and future perspectives

*Object-oriented Modeling and Design for Database Applications* Michael Blaha, William Premerlani, 1998 Written from a software engineering perspective this book shows programmers developers how to build object oriented database applications for distributed client server environments using the newest update of the OMT methodology UML

*Management Information Systems* James A. O'Brien, George M. Marakas, 2008 The benchmark text for the syllabus organized by technology a week on databases a week on networks a week on systems development etc taught from a managerial perspective O'Brien defines technology and then explains how companies use the technology to improve performance Real world cases finalize the explanation

**Integrated Management of Technical Documentation** Jirka Hoppe, 2012-12-06 Writing documentation is an integral part of any technical product development A significant amount of time is spent describing the product functionality giving insights into technical details providing maintenance instructions specifying marketing information writing user manuals etc As the creation of such documentation is generally a source of higher production costs many large companies are realising the need to increase the efficiency of documentation handling Simple documents consisting of only a few pages can be

developed on simple systems Basic components of such systems are an editor handling text and graphics file storage and a printer Such configurations however are not sufficient to handle professional documentation as produced by larger companies Detailed studies of technical documentation requirements have revealed that in particular the following functionality is not usually provided by such simple documentation systems Technical documentation is often very large documents having hundreds or even thousands of pages are not exceptional Due to size and complexity technical documentation is developed most often by a team of authors A system for technical documentation has to provide functionality supporting the organisation of a group of authors Technical documentation usually consists of many different documents combined into one large documentation for a particular product The optimum organisation of the storage and retrieval of documents is crucial for the performance and acceptability of the system The functionality offered by normal file systems is not adequate to organise complex systems

*Intelligent Multimedia Databases* Dimitris N. Chorafas,1994  
Written by a foremost authority in the field this comprehensive volume explores the cutting edge developments in database technology multi media database object oriented databases and the contributions of fuzzy technology to them It explains all concepts using practical examples and identifies the application areas that will benefit from these technologies and those that won't

**Database Systems** Paolo Atzeni,1999 Covers the important requirements of teaching databases with a modular and progressive perspective This book can be used for a full course or pair of courses but its first half can be profitably used for a shorter course

**Intelligent Offices** Setrag Khoshafian,1992-04-10 Provides a practical intelligent office model which integrates many applications in order to create an object oriented work flow model integrated double imaging and distributed database access Shows how these mature technologies can be connected by utilizing off the shelf open system software and hardware Features fundamental imaging hardware for document imaging systems including compression boards FAXboards scanners OCR along with integrating basic software concepts such as object orientation full text retrieval systems graphic user interfaces AI technologies and more

**Twelfth International Conference on Information Networking, (ICOIN-12), Koganei, Tokyo, Japan, January 21-23, 1998**,1998 The papers at this conference should appeal to researchers professors practitioners students and other computing professionals

*Multimedia Database Management Systems* Guojun Lu,1999 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

Proceedings of the 1998 ACM CIKM International Conference on Information and Knowledge Management Georges Gardarin,1998

**Proceedings of the ... International**

**Conference on Information and Knowledge Management** ,1998      Management Information Systems Kenneth C. Laudon,Jane Price Laudon,1994      Multimedia Network Integration and Management Larry Lennox Ball,1996 A guide for software engineers and developers and network managers to creating a multimedia network reliable enough for business applications Provides information on architectures controls signaling and modality and on crucial factors that distinguish multimedia from other networks and business from other applications Includes many scenarios ranging from automated bank teller machines to personal data retrieval kiosks Annotation copyright by Book News Inc Portland OR      **Journal of Object-oriented Programming** ,1991      Strategic Database Technology Alan R. Simon,1995 Noted consultant Alan Simon s 11th book explores the potential of current and emerging database technologies Technically serious but not technically detailed this book is designed to give information managers and others an overview of the trends and technologies for use in the years ahead so that they can be incorporated into the manager s plans today

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