

# Visual Database Systems 3

Visual information  
management

Edited by  
**Stefano Spaccapietra**  
and **Ramesh Jain**



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# Advances In Visual Information Management Visual Database Systems

**Rita de Caluwe, Guy De Tré, Gloria  
Bordogna**



## **Advances In Visual Information Management Visual Database Systems:**

**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 *Advances in Visual Information Management* Hiroshi Arisawa, Tiziana Catarci, 2013-03-20 Video segmentation is the most fundamental process for appropriate indexing and retrieval of video intervals In general video streams are composed of shots delimited by physical shot boundaries Substantial work has been done on how to detect such shot boundaries automatically Arman et al 1993 Zhang et al 1993 Zhang et al 1995 Kobla et al 1997 Through the integration of technologies such as image processing speech character recognition and natural language understanding keywords can be extracted and associated with these shots for indexing Wactlar et al 1996 A single shot however rarely carries enough amount of information to be meaningful by itself Usually it is a semantically meaningful interval that most users are interested in retrieving Generally such meaningful intervals span several consecutive shots There hardly exists any efficient and reliable technique either automatic or manual to identify all semantically meaningful intervals within a video stream Works by Smith and Davenport 1992 Oomoto and Tanaka 1993 Weiss et al 1995 Hjelsvold et al 1996 suggest manually defining all such intervals in the database in advance However even an hour long video may have an indefinite number of meaningful intervals Moreover video data is multi interpretative Therefore given a query what is a meaningful interval to an annotator may not be meaningful to the user who issues the query In practice manual indexing of meaningful intervals is labour intensive and inadequate **Visual Database Systems 3** Stefano Spaccapietra, Ramesh Jain, 1995-09-30 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

*Spatio-Temporal Databases* Rita de Caluwe, Guy De Tré, Gloria Bordogna, 2013-04-17 Spatio Temporal Databases explores recent trends in flexible querying and reasoning about time and space related information in databases It shows how flexible querying enhances standard querying expressiveness in many different ways with the aim of facilitating extraction of relevant data and information Flexible spatial and temporal reasoning denotes qualitative reasoning about dynamic changes in the spatial domain characterized by imprecision or uncertainty or both Many of the contributions focus on GIS while some others are more general or focus on related application fields presenting theoretical viewpoints and techniques that are inspiring or can be adapted for GIS The first part bundles the contributions on advances at the theoretical level also discussing examples and opening further perspectives The second part presents contributions on well developed applications The authors explain how to handle imprecision and uncertainty demonstrating how advanced techniques can help to solve diverse problems related to GIS

**Visual and Multimedia Information Management** Xiaofang Zhou, Pearl Pu, 2002-05-31 Current research in Visual Database Systems can be characterized by scalability multi modality of interaction and higher semantic levels of data Visual interfaces that allow users to interact with large databases must scale to web and distributed applications Interaction with databases must employ multiple and more diversified interaction modalities such as speech and gesture in addition to visual exploitation Finally the basic elements managed in modern databases are rapidly evolving from text images sound and video to compositions and now annotations of these media thus incorporating ever higher levels and different facets of semantics In addition to visual interfaces and multimedia databases Visual and Multimedia Information Management includes research in the following areas Speech and aural interfaces to databases Visualization of web applications and database structure Annotation and retrieval of image databases Visual querying in geographical information systems Video databases and

Virtual environment and modeling of complex shapes Visual and Multimedia Information Management comprises the proceedings of the sixth International Conference on Visual Database Systems which was sponsored by the International Federation for Information Processing IFIP and held in Brisbane Australia in May 2002 This volume will be essential for researchers in the field of management of visual and multimedia information as well as for industrial practitioners concerned with building IT products for managing visual and multimedia information

**Advances in Visual Information Management** Hiroshi Arisawa, Tiziana Catarci, 2014-01-15

**Fundamentals of Database Systems** Ramez Elmasri, Sham Navathe, 2007 This edition combines clear explanations of database theory and design with up to date coverage of models and real systems It features excellent examples and access to Addison Wesley's database Web site that includes further teaching tutorials and many useful student resources

**Readings in Multimedia Computing and Networking** Kevin Jeffay, Hong Jiang Zhang, 2001-08-10 Readings in Multimedia Computing and Networking captures the broad areas of research and developments in this burgeoning field distills the key findings and makes them accessible to professionals researchers and students alike For the first time the most influential and innovative papers on these topics are presented in a cohesive form giving shape to the diverse area of multimedia computing The seminal moments are recorded by a dozen visionaries in the field and each contributing editor provides a context for their area of research by way of a thoughtful focused chapter introduction The volume editors Kevin Jeffay and Hong Jiang Zhang offer further incisive interpretations of past and present developments in this area including those within media and content processing operating systems and networking support for multimedia This book will provide you with a sound understanding of the theoretical and practical issues at work in the field's continuing evolution Offers an in depth look at the technical challenges in multimedia and provides real and potential solutions that promise to expand the role of multimedia in business entertainment and education Examines in Part One issues at the heart of multimedia processes the means by which multimedia data are coded compressed indexed retrieved and otherwise manipulated Examines in Part Two the accommodation of these processes by storage systems operating systems network protocols and applications Written by leading researchers the introductions give shape to a field that is continually defining itself and place the key research findings in context to those who need to understand the state of the art developments

**Visual Database Systems**, 1991 **Advances in Databases**, 1996 *Advances in Databases and Information Systems* Witold Litwin, Tadeusz Morzy, Gottfried Vossen, 1998-08-19 This book constitutes the refereed proceedings of the Second East European Symposium on Advances in Databases and Information systems ADBIS 98 held in Poznan Poland in September 1998 The 25 revised full papers presented were selected from a total of 90 submissions and six extended abstracts within a special section East meets West The papers are organized in topical sections on query languages optimization collaborative systems schema integration storage and version management object systems knowledge discovery and the Web and systems design

**7th International Conference on Database Systems for Advanced**

**Applications (DAS-FAA 2001)** Dik Lun Lee, 2001 Annotation Proceedings of an April 2001 conference examining recent progress in XML databases data mining and clustering document and text databases deductive and knowledge bases OLAP indexing techniques mobile computing and databases query languages and processing workflow management visualization and multimedia databases query processing and optimization and heterogeneous and networked databases Specific subjects discussed include distance courseware discrimination based on representative sentence assaying a logical foundation for deductive object oriented databases multi cube computation and facilitating workflow evolution in an advanced object environment Other subjects include a unified retrieval method for multimedia documents and improving backward recovery in workflow systems Lacks a subject index c Book News Inc Visual Database Systems Toshiyasu Kunii, 1989 The large amount and complex structure of visual information make visual database systems storage and computation intensive However recent advances in memory size and processing power make the practical application of visual databases a reality New areas covered in this volume include pictorial databases multimedia databases object oriented databases visual structures visual data models model driven approach solid model based databases database design prototyping and user interfaces **Database and Expert Systems Applications**, 2001 Visualizing Spatial Multi-valued Data Alison L. Love, 2004 **Proceedings of the Workshop on Advanced Visual Interfaces** Tiziana Catarci, 1994 **Visual Database Systems for the Marine Sciences**, 1991 **Encyclopedia of Library and Information Science** Allen Kent, Harold Lancour, William Z. Nasri, Jay Elwood Daily, 1968 Vol 73 index to v 48 72 **Index of Conference Proceedings** British Library. Document Supply Centre, 2003 **Visual Database Systems, II** Előd Knuth, Lutz Wegner, 1992 The visual way of expressing and comprehending information is perhaps the most ancient immediate and effective way Image processing and database technologies came of age during the Eighties though a new challenge arose from the need to handle not only the complexity of pictures but also a large volume of pictures Extending database technologies to capture visual aspects is an exciting new research area This second volume highlights the latest results from leading laboratories all over the world identifying new research directions Main subject areas include theory of spatial representations image indexing and query techniques visual and multimedia data structures visual interfaces and object oriented approaches and access and search methodologies on moving pictures

The Enigmatic Realm of **Advances In Visual Information Management Visual Database Systems**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Advances In Visual Information Management Visual Database Systems** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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