

# Visual Information Retrieval

- Video retrieval
  - special characteristics
    - frames are linked together using editing effects
    - color, texture, shape and position (camera or object) are changed in multiple frames
    - richer semantics
    - different types of video

# Visual Information Retrieval

**Michael S. Lew**



## **Visual Information Retrieval:**

*Visual Information Retrieval* Alberto del Bimbo, 1999-06-03 The increasing use of multimedia in computer applications has increased the relevance of visual databases These databases now need new methods for archiving and retrieving information and this text concentrates on meeting such a need

**Visual Information Retrieval Using Java and LIRE** Mathias Lux, Oge Marques, 2022-05-31 Visual information retrieval VIR is an active and vibrant research area which attempts at providing means for organizing indexing annotating and retrieving visual information images and videos from large unstructured repositories The goal of VIR is to retrieve matches ranked by their relevance to a given query which is often expressed as an example image and or a series of keywords During its early years 1995 2000 the research efforts were dominated by content based approaches contributed primarily by the image and video processing community During the past decade it was widely recognized that the challenges imposed by the lack of coincidence between an image s visual contents and its semantic interpretation also known as semantic gap required a clever use of textual metadata in addition to information extracted from the image s pixel contents to make image and video retrieval solutions efficient and effective The need to bridge or at least narrow the semantic gap has been one of the driving forces behind current VIR research Additionally other related research problems and market opportunities have started to emerge offering a broad range of exciting problems for computer scientists and engineers to work on In this introductory book we focus on a subset of VIR problems where the media consists of images and the indexing and retrieval methods are based on the pixel contents of those images an approach known as content based image retrieval CBIR We present an implementation oriented overview of CBIR concepts techniques algorithms and figures of merit Most chapters are supported by examples written in Java using Lucene an open source Java based indexing and search implementation and LIRE Lucene Image REtrieval an open source Java based library for CBIR

Table of Contents Introduction Information Retrieval Selected Concepts and Techniques Visual Features Indexing Visual Features LIRE An Extensible Java CBIR Library Concluding Remarks

**Visualization for Information Retrieval** Jin Zhang, 2007-11-24 The amount of digitized information available on the Internet in digital libraries and other forms of information systems grows at an exponential rate while becoming more complex and more dynamic As a consequence information organization information retrieval and the presentation of retrieval results have become more and more difficult Information visualization offers a unique method to reveal hidden patterns and contextual information in a visual presentation and allows users to seek information in an intuitive way Jin Zhang provides a systematic explanation of the latest advancements in information retrieval visualization from both theoretical and practical perspectives He reviews the main approaches and techniques available in the field explains theoretical relationships between information retrieval and information visualization and presents major information retrieval visualization algorithms and models He then takes a detailed look at the theory and applications of information retrieval visualization for Internet traffic analysis and Internet

information searching and browsing The author also addresses challenges such as ambiguity metaphorical applications and system evaluation in information retrieval visualization environments Finally he compares these information retrieval visualization models from the perspectives of visual spaces semantic frameworks projection algorithms ambiguity and information retrieval and discusses important issues of information retrieval visualization and research directions for future exploration Readers of this book will gain an in depth understanding of the current state of information retrieval visualization They will be introduced to existing problems for researchers and professionals along with technical and theoretical findings and advances made by leading researchers The book also provides practical details for the implementation of an information retrieval visualization system

**Principles of Visual Information Retrieval** Michael S. Lew,2014-03-12 This text introduces the basic concepts and techniques in VIR In doing so it develops a foundation for further research and study Divided into two parts the first part describes the fundamental principles A chapter is devoted to each of the main features of VIR such as colour texture and shape based search There is coverage of search techniques for time based image sequences or videos and an overview of how to combine all the basic features described and integrate them into the search process The second part looks at advanced topics such as multimedia query This book is essential reading for researchers in VIR and final year undergraduate and postgraduate students on courses such as Multimedia Information Retrieval Multimedia Databases and others

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*Textual and Visual Information Retrieval Using Query Refinement and Pattern Analysis* A. Vadivel,2018 This book offers comprehensive coverage of information retrieval by considering both Text Based Information Retrieval TBIR and Content Based Image Retrieval CBIR together with new research topics The approach to TBIR is based on creating a thesaurus as well as event classification and detection N gram thesaurus generation for query refinement offers a new method for improving the precision of retrieval while event classification and detection approaches aid in the classification and organization of information using web documents for domain specific retrieval applications In turn with regard to content based image retrieval CBIR the book presents a histogram construction method which is based on human visual perceptions of color The book s overarching goal is to introduce readers to new ideas in an easy to follow manner

**Biometrics: Concepts, Methodologies, Tools, and Applications** Management Association, Information

Resources,2016-08-30 Security and authentication issues are surging to the forefront of the research realm in global society As technology continues to evolve individuals are finding it easier to infiltrate various forums and facilities where they can illegally obtain information and access By implementing biometric authentications to these forums users are able to prevent attacks on their privacy and security Biometrics Concepts Methodologies Tools and Applications is a multi volume publication highlighting critical topics related to access control user identification and surveillance technologies Featuring emergent research on the issues and challenges in security and privacy various forms of user authentication biometric applications to image processing and computer vision and security applications within the field this publication is an ideal reference source for researchers engineers technology developers students and security specialists **Usability Evaluation and Interface Design** Michael J. Smith,Richard John Koubek,Gavriel Salvendy,Don Harris,2001-08-01 This three volume set provides the complete proceedings of the Ninth International Conference on Human Computer Interaction held August 2001 in New Orleans A total of 2 738 individuals from industry academia research institutes and governmental agencies from 37 countries submitted their work for presentation at the conference The papers address the latest research and application in the human aspects of design and use of computing systems Those accepted for presentation thoroughly cover the entire field of human computer interaction including the cognitive social ergonomic and health aspects of work with computers The papers also address major advances in knowledge and effective use of computers in a variety of diversified application areas including offices financial institutions manufacturing electronic publishing construction and health care ImageCLEF Henning Müller,Paul Clough,Thomas Deselaers,Barbara Caputo,2010-08-20 The pervasive creation and consumption of content especially visual content is ingrained into our modern world We re constantly consuming visual media content in printed form and in digital form in work and in leisure pursuits Like our cave man forefathers we use pictures to record things which are of importance to us as memory cues for the future but nowadays we also use pictures and images to document processes we use them in engineering in art in science in medicine in entertainment and we also use images in advertising Moreover when images are in digital format either scanned from an analogue format or more often than not born digital we can use the power of our computing and networking to exploit images to great effect Most of the technical problems associated with creating compressing storing transmitting rendering and protecting image data are already solved We use cepted standards and have tremendous infrastructure and the only outstanding ch lenges apart from managing the scale issues associated with growth are to do with locating images That involves analysing them to determine their content clas fying them into related groupings and searching for images To overcome these challenges we currently rely on image metadata the description of the images ther captured automatically at creation time or manually added afterwards Computational Intelligence and Intelligent Systems Kangshun Li,Wei Li,Zhangxing Chen,Yong Liu,2018-07-20 This two volume set CCIS 873 and CCIS 874 constitutes the thoroughly refereed proceedings of the 9th International Symposium ISICA 2017 held in Guangzhou China in

November 2017 The 101 full papers presented in both volumes were carefully reviewed and selected from 181 submissions This second volume is organized in topical sections on swarm intelligence cooperative Search swarm optimization complex systems modeling system dynamic multimedia simulation intelligent information systems information retrieval e commerce platforms artificial intelligence and robotics query optimization intelligent engineering virtualization motion based tracking image recognition

Distributed Multimedia Databases: Techniques and Applications Shih, Timothy K.,2001-07-01 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

Creating New Medical Ontologies for Image Annotation Liana Stanescu,Dumitru Dan Burdescu,Marius Brezovan,Cristian Gabriel Mihai,2011-12-16 Creating New Medical Ontologies for Image Annotation focuses on the problem of the medical images automatic annotation process which is solved in an original manner by the authors All the steps of this process are described in detail with algorithms experiments and results The original algorithms proposed by authors are compared with other efficient similar algorithms In addition the authors treat the problem of creating ontologies in an automatic way starting from Medical Subject Headings MESH They have presented some efficient and relevant annotation models and also the basics of the annotation model used by the proposed system Cross Media Relevance Models Based on a text query the system will retrieve the images that contain objects described by the keywords

Semantic-Based Visual Information Retrieval Zhang, Yu-Jin,2006-11-30 This book presents state of the art advancements and developments in the field and also brings a selection of techniques and algorithms about semantic based visual information retrieval It covers many critical issues such as multi level representation and description scene understanding semantic modeling image and video annotation human computer interaction and more Provided by publisher *Library & Information Science Abstracts* ,2001

Visual Indexing and Retrieval Jenny Benois-Pineau,Frédéric Precioso,Matthieu Cord,2012-04-05 The research in content based indexing and retrieval of visual information such as images and video has become one of the most populated directions in the vast area of information technologies Social networks such as YouTube Facebook FileMobile and DailyMotion host and supply facilities for accessing a tremendous amount of professional and user generated data The areas of societal activity such as video protection and security also generate thousands and thousands of terabytes of visual content This book presents the most recent results and important trends in visual information indexing and retrieval It is intended for young researchers as well as professionals looking for an algorithmic solution to a problem *Exploratory Image Databases*

Simone Santini,2001 A new approach to image databases the work is divided into four central parts introduction to the problems that image database research must solve computer vision and information retrieval techniques image database issues and interface and engines for visual searches Example Imagine the difficulty of building and using a database for face recognition where an image of a face is used In order to effectively use the image a huge number of characteristics would need to be entered in the database The goal of future image databases is to use hardware and software to recognize and categorize images without typing in characteristics Comprehensive coverage of the image analysis as well as the database theoretical aspects of image databases Extensive coverage of interfaces and interaction models with a theoretical framework for the development of new interaction schemes *Reverse Acronyms, Initialisms, & Abbreviations Dictionary*,2002

**State-of-the-Art in Content-Based Image and Video Retrieval** Remco Veltkamp,Hans Burkhardt,Hans-Peter Kriegel,2001-10-31 Images and video play a crucial role in visual information systems and multimedia There is an extraordinary number of applications of such systems in entertainment business art engineering and science Such applications often involved large image and video collections and therefore searching for images and video in large collections is becoming an important operation Because of the size of such databases efficiency is crucial We strongly believe that image and video retrieval need an integrated approach from fields such as image processing shape processing perception database indexing visualization and querying etc This book contains a selection of results that was presented at the Dagstuhl Seminar on Content Based Image and Video Retrieval in December 1999 The purpose of this seminar was to bring together people from the various fields in order to promote information exchange and interaction among researchers who are interested in various aspects of accessing the content of image and video data The book provides an overview of the state of the art in content based image and video retrieval The topics covered by the chapters are integrated system aspects as well as techniques from image processing computer vision multimedia databases graphics signal processing and information theory The book will be of interest to researchers and professionals in the fields of multimedia visual information database systems computer vision and information retrieval **ASIS 2000** American Society for Information Science. Annual Meeting,American Society for Information Science,2000 *The Fifth International Conference on Technology and Education* ,1988

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