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Visual Information Retrieval using Java and LIRE

Mathias Lux
Oge Marques

*SYNTHESIS LECTURES ON INFORMATION
CONCEPTS, RETRIEVAL, AND SERVICES*

Gary Marchionini, Series Editor

Visual Information Retrieval Using Java And Lire Oge Marques

Michael S. Lew



Visual Information Retrieval Using Java And Lire Oge Marques:

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

Visual Information Retrieval Using Java and LIRE Lux Mathias,Susan Feldman,Marques Oge,2012 The Answer Machine is a practical non technical guide to the technologies behind information seeking and analysis It introduces search and content analytics to software buyers knowledge managers and searchers who want to understand and design effective online environments The book describes how search evolved from an expert only to an end user tool It provides an overview of search engines categorization and clustering natural language processing content analytics and visualization technologies Detailed profiles for Web search eCommerce search eDiscovery and enterprise search contrast the types of users uses tasks technologies and interaction designs for each These variables shape each application although the underlying technologies are the same Types of information tasks and the trade offs between precision and recall time volume and precision and privacy vs personalization are discussed within this context The book examines trends toward convenient context aware computing big data and analytics technologies conversational systems and answer machines The Answer Machine explores IBM Watson s DeepQA technology and describes how it is used to answer health care and Jeopardy questions The book concludes by discussing the implications of these advances how they will change the way we run our

businesses practice medicine govern or conduct our lives in the digital age Table of Contents Introduction The Query Process and Barriers to Finding Information Online Online Search An Evolution Search and Discovery Technologies An Overview Information Access A Spectrum of Needs and Uses Future Tense The Next Era in Information Access and Discovery Answer Machines

Scholarly Collaboration on the Academic Social Web Daqing He, Wei Jeng, 2022-05-31 Collaboration among scholars has always been recognized as a fundamental feature of scientific discovery The ever increasing diversity among disciplines and complexity of research problems makes it even more compelling to collaborate in order to keep up with the fast pace of innovation and advance knowledge Along with the rapidly developing Internet communication technologies and the increasing popularity of the social web we have observed many important developments of scholarly collaboration on the academic social web In this book we review the rapid transform of scholarly collaboration on various academic social web platforms and examine how these platforms have facilitated academics throughout their research lifecycle from forming ideas collecting data and authoring articles to disseminating findings We refer to the term academic social web platforms in this book as a category of Web 2.0 tools or online platforms such as CiteULike Mendeley Academia.edu and ResearchGate that enable and facilitate scholarly information exchange and participation We will also examine scholarly collaboration behaviors including sharing academic resources exchanging opinions following each other's research keeping up with current research trends and most importantly building up their professional networks Inspired by the model developed Olson et al 2000 on factors for successful scientific collaboration our examination of the status of scholarly collaboration on the academic social web has four emphases technology readiness coupling work building common ground and collaboration readiness Finally we talk about the insights and challenges of all these online scholarly collaboration activities imposed on the research communities who are engaging in supporting online scholarly collaboration This book aims to help researchers and practitioners understand the development of scholarly collaboration on the academic social web and to build up an active community of scholars who are interested in this topic

Mobile Search Behaviors Dan Wu, Shaobo H. Liang, 2022-05-31 With the rapid development of mobile Internet and smart personal devices in recent years mobile search has gradually emerged as a key method with which users seek online information In addition cross device search also has been regarded recently as an important research topic As more mobile applications APPs integrate search functions a user's mobile search behavior on different APPs becomes more significant This book provides a systematic review of current mobile search analysis and studies user mobile search behavior from several perspectives including mobile search context APP usage and different devices Two different user experiments to collect user behavior data were conducted Then through the data from user mobile phone usage logs in natural settings we analyze the mobile search strategies employed and offer a context based mobile search task collection which then can be used to evaluate the mobile search engine In addition we combine mobile search with APP usage to give more in depth analysis such as APP transition in mobile search and follow up actions triggered

by mobile search The study combining the mobile search with APP usage can contribute to the interaction design of APPs such as the search recommendation and APP recommendation Addressing the phenomenon of users owning more smart devices today than ever before we focus on user cross device search behavior We model the information preparation behavior and information resumption behavior in cross device search and evaluate the search performance in cross device search Research on mobile search behaviors across different devices can help to understand online user information behavior comprehensively and help users resume their search tasks on different devices

Framing Privacy in Digital Collections with Ethical Decision Making Virginia Dressler,2022-06-01 As digital collections continue to grow the underlying technologies to serve up content also continue to expand and develop As such new challenges are presented which continue to test ethical ideologies in everyday environs of the practitioner There are currently no solid guidelines or overarching codes of ethics to address such issues The digitization of modern archival collections in particular presents interesting conundrums when factors of privacy are weighed and reviewed in both small and mass digitization initiatives Ethical decision making needs to be present at the onset of project planning in digital projects of all sizes and we also need to identify the role and responsibility of the practitioner to make more virtuous decisions on behalf of those with no voice or awareness of potential privacy breaches In this book notions of what constitutes private information are discussed as is the potential presence of such information in both analog and digital collections This book lays groundwork to introduce the topic of privacy within digital collections by providing some examples from documented real world scenarios and making recommendations for future research A discussion of the notion privacy as concept will be included as well as some historical perspective with perhaps one the most cited work on this topic for example Warren and Brandeis Right to Privacy 1890 Concepts from the The Right to Be Forgotten case in 2014 Google Spain SL Google Inc v Agencia Espa la de Protecci n de Datos Mario Costeja Gonz lez are discussed as to how some lessons may be drawn from the response in Europe and also how European data privacy laws have been applied The European ideologies are contrasted with the Right to Free Speech in the First Amendment in the U S highlighting the complexities in setting guidelines and practices revolving around privacy issues when applied to real life scenarios Two ethical theories are explored Consequentialism and Deontological Finally ethical decision making models will also be applied to our framework of digital collections Three case studies are presented to illustrate how privacy can be defined within digital collections in some real world examples

Scalability Challenges in Web Search Engines B. Barla Cambazoglu,Ricardo Baeza-Yates,2022-06-01 In this book we aim to provide a fairly comprehensive overview of the scalability and efficiency challenges in large scale web search engines More specifically we cover the issues involved in the design of three separate systems that are commonly available in every web scale search engine web crawling indexing and query processing systems We present the performance challenges encountered in these systems and review a wide range of design alternatives employed as solution to these challenges specifically focusing on algorithmic and architectural

optimizations We discuss the available optimizations at different computational granularities ranging from a single computer node to a collection of data centers We provide some hints to both the practitioners and theoreticians involved in the field about the way large scale web search engines operate and the adopted design choices Moreover we survey the efficiency literature providing pointers to a large number of relatively important research papers Finally we discuss some open research problems in the context of search engine efficiency

Images in Social Media Susanne Ørnager, Haakon Lund, 2022-06-01 This book focuses on the methodologies organization and communication of digital image collection research that utilizes social media content Image is here understood as a cultural conventional and commercial stock photo representation The lecture offers expert views that provide different interpretations of images and their potential implementations Linguistic and semiotic methodologies as well as eye tracking research are employed to both analyze images and comprehend how humans consider them including which salient features generally attract viewers attention This literature review covers image specifically photographic research since 2005 when major social media platforms emerged A citation analysis includes an overview of co citation maps that demonstrate the nexus of image research literature and the journals in which they appear Eye tracking tests whether scholarly templates focus on the proper features of an image such as people objects time etc and if a prescribed theme affects the eye movements of the observer The results may point to renewed requirements for building image search engines As it stands image management already requires new algorithms and a new understanding that involves text recognition and very large database processing The aim of this book is to present different image research areas and demonstrate the challenges image research faces The book s scope is by necessity far from comprehensive since the field of digital image research does not cover fake news image manipulation mobile photos etc these issues are very complex and need a publication of their own This book should primarily be useful for students in library and information science psychology and computer science

Content-Based Image and Video Retrieval Oge Marques, Borko Furht, 2002-04-30 Content Based Image And Video Retrieval addresses the basic concepts and techniques for designing content based image and video retrieval systems It also discusses a variety of design choices for the key components of these systems This book gives a comprehensive survey of the content based image retrieval systems including several content based video retrieval systems The survey includes both research and commercial content based retrieval systems Content Based Image And Video Retrieval includes pointers to two hundred representative bibliographic references on this field ranging from survey papers to descriptions of recent work in the area entire books and more than seventy websites Finally the book presents a detailed case study of designing MUSE a content based image retrieval system developed at Florida Atlantic University in Boca Raton Florida

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

Content-Based

Image and Video Retrieval Oge Marques, Borko Furht, 2012-11-09 Content Based Image And Video Retrieval addresses the basic concepts and techniques for designing content based image and video retrieval systems It also discusses a variety of design choices for the key components of these systems This book gives a comprehensive survey of the content based image retrieval systems including several content based video retrieval systems The survey includes both research and commercial content based retrieval systems Content Based Image And Video Retrieval includes pointers to two hundred representative bibliographic references on this field ranging from survey papers to descriptions of recent work in the area entire books and more than seventy websites Finally the book presents a detailed case study of designing MUSE a content based image retrieval system developed at Florida Atlantic University in Boca Raton Florida *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 Information Retrieval Using Java Links Mohammad Omer Janjooa, University of Manchester Institute of Science and Technology. Department of Computation, 2001 **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 The Use of Visual Representations in Information Retrieval Applications D. B. Crouch, R. R. Korfhage, 1989 **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 **Concept-Based Video Retrieval** Cees G. M. Snoek, Marcel Worring, 2009 In this paper we review 300 references on video retrieval indicating when text only solutions

are unsatisfactory and showing the promising alternatives which are in majority concept based Therefore central to our discussion is the notion of a semantic concept an objective linguistic description of an observable entity Specifically we present our view on how its automated detection selection under uncertainty and interactive usage might solve the major scientific problem for video retrieval the semantic gap To bridge the gap we lay down the anatomy of a concept based video search engine We present a component wise decomposition of such an interdisciplinary multimedia system covering influences from information retrieval computer vision machine learning and human computer interaction For each of the components we review state of the art solutions in the literature each having different characteristics and merits Because of these differences we cannot understand the progress in video retrieval without serious evaluation efforts such as carried out in the NIST TRECVID benchmark We discuss its data tasks results and the many derived community initiatives in creating annotations and baselines for repeatable experiments We conclude with our perspective on future challenges and opportunities

Advances in Information Retrieval Center for Intelligent Information Retrieval, 2000-04-30 The NSF Center for Intelligent Information Retrieval CIIR was formed in the Computer Science Department of the University of Massachusetts Amherst in 1992 Through its efforts in basic research applied research and technology transfer the CIIR has become known internationally as one of the leading research groups in the area of information retrieval The CIIR focuses on research that results in more effective and efficient access and discovery in large heterogeneous distributed text and multimedia databases The scope of the work that is done in the CIIR is broad and goes significantly beyond traditional areas of information retrieval such as retrieval models cross lingual search and automatic query expansion The research includes both low level systems issues such as the design of protocols and architectures for distributed search as well as more human centered topics such as user interface design visualization and data mining with text and multimedia retrieval Advances in Information Retrieval Recent Research from the Center for Intelligent Information Retrieval is a collection of papers that covers a wide variety of topics in the general area of information retrieval Together they represent a snapshot of the state of the art in information retrieval at the turn of the century and at the end of a decade that has seen the advent of the World Wide Web The papers provide overviews and in depth analysis of theory and experimental results This book can be used as source material for graduate courses in information retrieval and as a reference for researchers and practitioners in industry

Principles of Visual Information Retrieval Michael S. Lew, 2001-01-26 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

Multimedia Information Retrieval Stefan M. Rüger, 2010 Supporting users in their resource discovery mission when hunting for multimedia material is not a technological indexing problem alone We look at interactive ways of engaging with repositories through browsing and relevance feedback roping in geographical context and providing visual summaries for videos The book concludes with an overview of state of the art research projects in the area of multimedia information retrieval which gives an indication of the research and development trends and thereby a glimpse of the future world

Progress in Visual Information Access and Retrieval Beth Sandore, 1999

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Table of Contents Visual Information Retrieval Using Java And Lire Oge Marques

1. Understanding the eBook Visual Information Retrieval Using Java And Lire Oge Marques
 - The Rise of Digital Reading Visual Information Retrieval Using Java And Lire Oge Marques
 - Advantages of eBooks Over Traditional Books
2. Identifying Visual Information Retrieval Using Java And Lire Oge Marques
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Visual Information Retrieval Using Java And Lire Oge Marques
 - User-Friendly Interface
4. Exploring eBook Recommendations from Visual Information Retrieval Using Java And Lire Oge Marques
 - Personalized Recommendations
 - Visual Information Retrieval Using Java And Lire Oge Marques User Reviews and Ratings
 - Visual Information Retrieval Using Java And Lire Oge Marques and Bestseller Lists

5. Accessing Visual Information Retrieval Using Java And Lire Oge Marques Free and Paid eBooks
 - Visual Information Retrieval Using Java And Lire Oge Marques Public Domain eBooks
 - Visual Information Retrieval Using Java And Lire Oge Marques eBook Subscription Services
 - Visual Information Retrieval Using Java And Lire Oge Marques Budget-Friendly Options
6. Navigating Visual Information Retrieval Using Java And Lire Oge Marques eBook Formats
 - ePub, PDF, MOBI, and More
 - Visual Information Retrieval Using Java And Lire Oge Marques Compatibility with Devices
 - Visual Information Retrieval Using Java And Lire Oge Marques Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Visual Information Retrieval Using Java And Lire Oge Marques
 - Highlighting and Note-Taking Visual Information Retrieval Using Java And Lire Oge Marques
 - Interactive Elements Visual Information Retrieval Using Java And Lire Oge Marques
8. Staying Engaged with Visual Information Retrieval Using Java And Lire Oge Marques
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Visual Information Retrieval Using Java And Lire Oge Marques
9. Balancing eBooks and Physical Books Visual Information Retrieval Using Java And Lire Oge Marques
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Visual Information Retrieval Using Java And Lire Oge Marques
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Visual Information Retrieval Using Java And Lire Oge Marques
 - Setting Reading Goals Visual Information Retrieval Using Java And Lire Oge Marques
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Visual Information Retrieval Using Java And Lire Oge Marques
 - Fact-Checking eBook Content of Visual Information Retrieval Using Java And Lire Oge Marques
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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