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Image Statistics in Visual Computing Tania Pouli,Erik Reinhard,Douglas W. Cunningham,2013-12-13 To achieve the complex task of interpreting what we see, our brains rely on statistical regularities and patterns in visual data. Knowledge of these regularities can also be considerably useful in visual computing disciplines, such as computer vision, computer graphics, and image processing. The field of natural image statistics studies the regular

Visual Information Retrieval Using Java and LIRE Mathias Lux,Oge Marques,2013 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.

Essential Visual J++ 6.0 fast John Cowell,2012-12-06 Microsoft's Visual J++ has emerged as the development environment of choice for programmers building Java applications and applets. This book provides all the essential information necessary for Java programmers who want to maximize the benefits of the Visual J++ development environment for fast programming and debugging. Some of the topics covered include: the Java language, graphics and animation, the Java API hierarchy, the abstract windowing toolkit, Java applet wizards, debugging, and project management. It also covers ActiveX integration which makes it possible to access databases and existing applications. This book covers the latest version of Visual J++.

Visual Perception from a Computer Graphics Perspective William Thompson,Roland Fleming,Sarah Creem-Regehr,Jeanine Kelly Stefanucci,2013-12-12 This book provides an introduction to human visual perception suitable for readers studying or working in the fields of computer graphics and visualization, cognitive science, and visual neuroscience. It focuses on how computer graphics images are generated, rather than solely on the organization of the visual system itself; therefore, the text provides a more direct tie between image generation and the resulting perceptual phenomena. It covers such topics as the perception of material properties, illumination, the perception of pictorial space, image statistics, perception and action, and spatial cognition.

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.

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.

Using Visual C++ 6 Kate Gregory,1998 Special Edition Using Visual C++ 6 focuses on making you productive with Visual C++ as quickly as possible. Because of its straightforward approach, this book is able to progress into more advanced topics such as database capabilities, creating ActiveX controls and documents, and enterprise features. Coverage includes all the new features of version 6 as well as expanding on a few topics such as Active Server Pages, VC++, and ActiveX Data Object (ADO & OLE DB).

Representation and Retrieval of Visual Media in Multimedia Systems HongJiang Zhang,Philippe Aigrain,Dragutin Petkovic,2007-08-20 Representation and Retrieval of Visual Media in Multimedia Systems brings together in one place important contributions and up-to-date researcg results in this important area. Representation and Retrieval of Visual Media in Multimedia Systems serves as an excellent reference, providing insight into some of the most important research issues in the field.

Multithreading for Visual Effects Martin Watt,Erwin Coumans,George ElKoura,Ronald Henderson,Manuel Kraemer,Jeff Lait,James Reinders,2014-07-29 Tackle the Challenges

of Parallel Programming in the Visual Effects Industry In Multithreading for Visual Effects, developers from DreamWorks Animation, Pixar, Side Effects, Intel, and AMD share their successes and failures in the messy real-world application area of production software. They provide practical advice on multithreading techniques and visual effects used in popular visual effects libraries (such as Bullet, OpenVDB, and OpenSubdiv), one of the industry's leading visual effects packages (Houdini), and proprietary animation systems. This information is valuable not just to those in the visual effects arena, but also to developers of high performance software looking to increase performance of their code. Diverse Solutions to Solve Performance Problems After an introductory chapter, each subsequent chapter presents a case study that illustrates how the authors used multithreading techniques to achieve better performance. The authors discuss the problems that occurred and explain how they solved them. The case studies encompass solutions for shaving milliseconds, solutions for optimizing longer running tasks, multithreading techniques for modern CPU architectures, and massive parallelism using GPUs. Some of the case studies include open source projects so you can try out these techniques for yourself and see how well they work.

Workshop Report, NSF Workshop on Visual Information Management Systems ,1992

Visual Interface Design for Digital Cultural Heritage Stan Ruecker,Milena Radzikowska,Stefan Sinclair,2016-02-17 Browsing for information is a significant part of most research activity, but many online collections hamper browsing with interfaces that are variants on a search box. Research shows that rich-prospect interfaces can offer an intuitive and highly flexible alternative environment for information browsing, assisting hypothesis formation and pattern-finding. This unique book offers a clear discussion of this form of interface design, including a theoretical basis for why it is important, and examples of how it can be done. It will be of interest to those working in the fields of library and information science, human-computer interaction, visual communication design, and the digital humanities as well as those interested in new theories and practices for designing web interfaces for library collections, digitized cultural heritage materials, and other types of digital collections.

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.

Learning-Based Local Visual Representation and Indexing Rongrong Ji,Yue Gao,Ling-Yu Duan,Hongxun Yao,Qionghai Dai,2015-04-08 Learning-Based Local Visual Representation and Indexing, reviews the state-of-the-art in visual content representation and indexing, introduces cutting-edge techniques in learning based visual representation, and discusses emerging topics in visual local representation, and introduces the most recent advances in content-based visual search techniques. Discusses state-of-the-art procedures in learning-based local visual representation. Shows how to master the basic techniques needed for building a large-scale visual search engine and indexing system Provides insight into how machine learning techniques can be leveraged to refine the visual recognition system, especially in the part of visual feature representation.

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.

Sorting and Sort Systems Harold Lorin,1975 Prepares the programmer to create sort programs and provides the basic for reading more formidable literature in the field.

A Visual Introduction to SQL J. Harvey Trimble, Jr.,David Chappell,1989-04-11 A Visual Introduction to SQL Structured Query Language (SQL) is the standard tool for retrieving information from relational databases. A Visual Introduction to SQL shows how the apparent complexity of a SQL query can be resolved into transparent clarity using a simple visual representation. A breakthrough approach to understanding SQL, the graphical technique shown on the book's cover is the basis of this example-filled book, allowing anyone to understand and use SQL. No prior knowledge of database systems is assumed, so whether you are seeing SQL for the first time or already have some experience with the language, A Visual Introduction to SQL is for you: For SQL beginners, the book's unique graphical approach makes learning this sometimes unfriendly language much easier; For those with some SQL experience, A Visual Introduction to SQL provides an understanding of the language's underlying structure, thus making the construction of even complex queries intuitively obvious; For daily SQL users, the wealth of examples contained in this book provide quick, easy-to-reference answers to frequently asked questions. No matter what SQL system you use, A Visual Introduction to SQL is essential to your understanding of the language. Foreword by David Liddle, Chairman and Cofounder of Metaphore Computer Systems.

Visual Intelligence Mark Stacey,Joe Salvatore,Adam Jorgensen,2013-04-10 Go beyond design concepts and learn to build state-of-the-art visualizations The visualization experts at Microsoft's Pragmatic Works have created a full-color, step-by-step guide to building specific types of visualizations. The book thoroughly covers the Microsoft toolset for data analysis and visualization, including Excel, and explores best practices for choosing a data visualization design, selecting tools from the Microsoft stack, and building a dynamic data visualization from start to finish. You'll examine different types of visualizations, their strengths and weaknesses, and when to use each one. Data visualization tools unlock the stories within the data, enabling you to present it in a way that is useful for making business decisions This full-color guide introduces data visualization design concepts, then explains the various Microsoft tools used to store and display data Features a detailed discussion of various classes of visualizations, their uses, and the appropriate tools for each Includes practical implementations of various visualizations and best practices for using them Covers out-of-the-box Microsoft tools, custom-developed illustrations and implementations, and code examples Visual Intelligence: Microsoft Tools and Techniques for Visualizing Data arms you with best practices and the knowledge to choose and build dynamic data visualizations.

Visual Search 2 A.G. Gale,K. Carr,D. Brogan,1993-05-05 The concept of visual search embraces a wide range of processing activities, from human cognitive phenomana to applied problems for both human and machine vision in industrial, medical and military environments. This book, the second to be derived from the series of internationl conferences on visual search organized under the auspices of the Appli

Human Interaction with Graphs Sourav S. Bhowmick,Byron Choi,Chengkai Li,2018-08-08 Interacting with graphs using queries has emerged as an important research problem for real-world applications that center on large graph data. Given the syntactic complexity of graph query languages (e.g., SPARQL, Cypher), visual graph query interfaces make it easy for non-programmers to query such graph data repositories. In this book, we present recent developments in the emerging area of visual graph querying paradigm that bridges traditional graph querying with human computer interaction (HCI). Specifically, we focus on techniques that emphasize deep integration between the visual graph query interface and the underlying graph query engine. We discuss various strategies and guidance for constructing graph queries visually, interleaving processing of graph queries and visual actions, visual exploration of graph query results, and automated performance study of visual graph querying frameworks. In addition, this book highlights open problems and new research directions. In summary, in this book, we review and summarize the research thus far into the integration of HCI and graph querying to facilitate user-friendly interaction with graph-structured data, giving researchers a snapshot of the current state of the art in this topic, and future research directions.

Visual Research Methods Shailoo Bedi,Jenaya Webb,2020-10-13 Visual research methods (VRM) comprise a collection of methods that incorporate visual elements such as maps, drawings, photographs, videos, as well as three-dimensional objects into the research process. In addition, VRM including photo-elicitation, photovoice, draw-and-write techniques, and cognitive mapping are being leveraged to great effect to explore information experiences to investigate some of the central questions in the field; expand theoretical discussions in LIS; and improve library services and spaces. Visual Research Methods: An Introduction for Library and Information Studies is the first book to focus on visual methods in LIS, providing a comprehensive primer for students, educators, researchers and practitioners in the field. Contributed chapters in the book showcase examples of VRM in action and offer the insights, inspirations, and experiences of researchers and practitioners working with visual methods. Coverage includes: - an introduction to visual research methods including a discussion of terminology - an overview of the literature on VRM in libraries - methodological framing including a discussion of theory, epistemology, - practical and ethical considerations for researchers embarking on VRM projects - chapters showcasing VRM in action including drawing techniques, photographic techniques, and mixed methods - six contributed chapters each showcasing the results of visual research methods, discussions of the techniques, and reflections on VRM for research in information studies. This book will provide a strong methodological context for the adoption of visual research methods in LIS and feature examples of VRM 'in action.' It will prove to be a must-have reference for researchers, practitioners, instructors, and students who want to engage with visual research methods and to expand their methodological toolkit.

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