Image Miner

Nora Webb Williams,Andreu Casas,John D. Wilkerson

Fundamentals of Image Data Mining Dengsheng Zhang,2019-05-13 This reader-friendly textbook presents a comprehensive review of the essentials of image data mining, and the latest cutting-edge techniques used in the field. The coverage spans all aspects of image analysis and understanding, offering deep insights into areas of feature extraction, machine learning, and image retrieval. The theoretical coverage is supported by practical mathematical models and algorithms, utilizing data from real-world examples and experiments. Topics and features: describes the essential tools for image mining, covering Fourier transforms, Gabor filters, and contemporary wavelet transforms; reviews a varied range of state-of-the-art models, algorithms, and procedures for image mining; emphasizes how to deal with real image data for practical image mining; highlights how such features as color, texture, and shape can be mined or extracted from images for image representation; presents four powerful approaches for classifying image data, namely, Bayesian classification, Support Vector Machines, Neural Networks, and Decision Trees; discusses techniques for indexing, image ranking, and image presentation, along with image database visualization methods; provides self-test exercises with instructions or Matlab code, as well as review summaries at the end of each chapter. This easy-to-follow work illuminates how concepts from fundamental and advanced mathematics can be applied to solve a broad range of image data mining problems encountered by students and researchers of computer science. Students of mathematics and other scientific disciplines will also benefit from the applications and solutions described in the text, together with the hands-on exercises that enable the reader to gain first-hand experience of computing.

Images as Data for Social Science Research Nora Webb Williams,Andreu Casas,John D. Wilkerson,2020-08-13 Images play a crucial role in shaping and reflecting political life. Digitization

has vastly increased the presence of such images in daily life, creating valuable new research opportunities for social scientists. We show how recent innovations in computer vision methods can substantially lower the costs of using images as data. We introduce readers to the deep learning algorithms commonly used for object recognition, facial recognition, and visual sentiment analysis. We then provide guidance and specific instructions for scholars interested in using these methods in their own research.

Communications and Information Processing Maotai Zhao,Junping Sha,2012-06-28 The two volume set, CCIS 288 and 289, constitutes the thoroughly refereed post-conference proceedings of the First International Conference on Communications and Information Processing, ICCIP 2012, held in Aveiro, Portugal, in March 2012. The 168 revised full papers of both volumes were carefully reviewed and selected from numerous submissions. The papers present the state-of-the-art in communications and information processing and feature current research on the theory, analysis, design, test and deployment related to communications and information processing systems.

Web Microanalysis of Big Image Data Peter Bajcsy,Joe Chalfoun,Mylene Simon,2018-01-22 This book looks at the increasing interest in running microscopy processing algorithms on big image data by presenting the theoretical and architectural underpinnings of a web image processing pipeline (WIPP). Software-based methods and infrastructure components for processing big data microscopy experiments are presented to demonstrate how information processing of repetitive, laborious and tedious analysis can be automated with a user-friendly system. Interactions of web system components and their impact on computational scalability, provenance information gathering, interactive display, and computing are explained in a top-down presentation of technical details. Web Microanalysis of Big Image Data includes descriptions of WIPP functionalities, use cases, and components of the web software system (web server and client

architecture, algorithms, and hardware-software dependencies). The book comes with test image collections and a web software system to increase the reader's understanding and to provide practical tools for conducting big image experiments. By providing educational materials and software tools at the intersection of microscopy image analyses and computational science, graduate students, postdoctoral students, and scientists will benefit from the practical experiences, as well as theoretical insights. Furthermore, the book provides software and test data, empowering students and scientists with tools to make discoveries with higher statistical significance. Once they become familiar with the web image processing components, they can extend and re-purpose the existing software to new types of analyses. Each chapter follows a top-down presentation, starting with a short introduction and a classification of related methods. Next, a description of the specific method used in accompanying software is presented. For several topics, examples of how the specific method is applied to a dataset (parameters, RAM requirements, CPU efficiency) are shown. Some tips are provided as practical suggestions to improve accuracy or computational performance.

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.-

Uranium Seekers Craig Evan Royce,2012 The, Uranium Seekers, saga began in 1976 when world-famous Hollywood, California photographer, Martin, was contracted to come to Utah and begin documenting, paying photographic tribute to, uranium miners, native Americans, and the Vanadium King uranium and vanadium mines on Temple Mountain, Emery County, Utah. The essence of the project was to pay tribute to the persons who traversed Zane Grey's and John Ford's great western expanse in search of uranium ore, one rock at a time, from before Madame Curies trips to the, then, present, and to remind the world's public that uranium was, and still is, used to kill, not humanity, rather cancer. I harbored the hope that by going back to the first uranium rocks the nuclear industry would re-evaluate the physical structure of nuclear reactors, one cubic yard at a time. Nuclear reactors, when built, witness Fukushima Daiichi, are still being created with too much haste. Like the uranium miners themselves, it's the hands of the humanity who cast the cement forms in which the reactors rest which determines safety. I also, rather naively, hoped when uranium's harmonous utilization was embraced its destructive military reality, throughout the world, would melt. Even with the support of the fine Beverly Hills, California literary agent, Clyde M. Vandeburg of Vandeburg-Linkletter Associates who represented Ronald and Nancy Reagan, Barry Goldwater, and many others at the time, the national and international events at Three-Mile Island and Chernobyl put Uranium Seekers and Martins great photographs to bed for decades. However, recently I learned the Utah Historical Quarterly Unpublished Manuscripts from the Department of Community and Culture at the Utah State Archives had harbored some of the manuscript material for decades and the recent events at Fukushima Daiichi made uranium part of the

international conversation once again, I decided to dust off Martin's work and snatches of the original material for Uranium Seekers.

Work and the Image Valerie Mainz,Griselda Pollock,2018-02-06 This title was first published in 2000. Published in two volumes, Work and the Image addresses a critical theme in contemporary social and cultural debates whose place in visual representation has been neglected. Ranging from Greek pottery to contemporary performance, and exploring a breadth of geo-national perspectives including those of France, Britain, Hungary, Soviet Russia, the Ukraine, Siberia and Germany, the essays provide a challenging reconsideration of the image of work, the meaning of the work process, and the complex issues around artistic activity as itself a form of work even as it offers a representation of labour. With a shared focus on the 20th century, the era of modernity and its postmodern aftermath, the essays in this volume examine the diverse ways in which the social relations of work in industrial societies from both capitalist and socialist regimes were publicly and privately mediated by changing forms of visual representation. The authors discuss traditional analyses of the image of the worker in the light of contemporary critical theories that address the question of the subjectivity of the worker in relation to class, gender, nationhood and the concept of modernity.

Multimedia Mining Chabane Djeraba,2012-12-06 Multimedia Mining: A Highway to Intelligent Multimedia Documents brings together experts in digital media content analysis, state-of-art data mining and knowledge discovery in multimedia database systems, knowledge engineers and domain experts from diverse applied disciplines. Multimedia documents are ubiquitous and often required, if not essential, in many applications today. This phenomenon has made multimedia documents widespread and extremely large. There are tools for managing and searching within these collections, but the need for tools to extract hidden

useful knowledge embedded within multimedia objects is becoming pressing and central for many decision-making applications. The tools needed today are tools for discovering relationships between objects or segments within multimedia document components, such as classifying images based on their content, extracting patterns in sound, categorizing speech and music, and recognizing and tracking objects in video streams.

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.

Mining Multimedia Documents Wahiba Ben Abdessalem Karaa,Nilanjan Dey,2017-04-21 The information age has led to an explosion in the amount of information available to the individual

and the means by which it is accessed, stored, viewed, and transferred. In particular, the growth of the internet has led to the creation of huge repositories of multimedia documents in a diverse range of scientific and professional fields, as well as the tools to extract useful knowledge from them. Mining Multimedia Documents is a must-read for researchers, practitioners, and students working at the intersection of data mining and multimedia applications. It investigates various techniques related to mining multimedia documents based on text, image, and video features. It provides an insight into the open research problems benefitting advanced undergraduates, graduate students, researchers, scientists and practitioners in the fields of medicine, biology, production, education, government, national security and economics.

The Black Image in the New Deal Nicholas Natanson,1992 Between 1935 and 1942, photographers for the New Deal's Resettlement Administration-Farm Security Administration (FSA) captured in powerfully moving images the travail of the Great Depression and the ways of a people confronting radical social change. Those who speak of the special achievement of FSA photography usually have in mind such white icons as Dorothea Lange's Migrant Mother or Walker Evans's Alabama sharecroppers. But some six thousand printed images, a tenth of FSA's total, included black figures or their dwellings. At last, Nicholas Natanson reveals both the innovative treatment of African Americans in FSA photographs and the agency's highly problematic use of these images once they had been created. While mono-dimensional treatments of blacks were common in public and private photography of the period, such FSA photographers as Ben Shahn, Arthur Rothstein, and Jack Delano were well informed concerning racial problems and approached blacks in a manner that avoided stereotypes, right-wing as well as left-wing. In addition, rather than focusing exclusively on FSA-approved agency projects involving blacks - politically the safest

course - they boldly addressed wider social and cultural themes. This study employs a variety of methodological tools to explore the political and administrative forces that worked against documentary coverage of particularly sensitive racial issues. Moreover, Natanson shows that those who drew on the FSA photo files for newspapers, magazines, books, and exhibitions often entirely omitted images of black people and their environment or used devices such as cropping and captioning to diminish the true range of the FSA photographers' vision.

Advances in Multimedia Modeling Tat-Jen Cham,Jianfei Cai,Chitra Dorai,Deepu Rajan,Tat-Seng Chua,Liang-Tien Chia,2007-07-05 The two volume set LNCS 4351 and LNCS 4352 constitutes the refereed proceedings of the 13th International Multimedia Modeling Conference, MMM 2007, held in Singapore in January 2007. Based on rigorous reviewing, the program committee selected 123 carefully revised full papers of the main technical sessions and 33 revised full papers of four special sessions from a total of 392 submissions for presentation in two volumes.

Data Mining: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2012-11-30 Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end-users into an understandable way. Data Mining: Concepts, Methodologies, Tools, and Applications is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world.

Big Data in Medical Image Processing R. Suganya,S. Rajaram,A. Sheik Abdullah,2018-01-29 The field of medical imaging seen rapid development over the last two decades and has consequently revolutionized the way in which modern medicine is practiced. Diseases and their symptoms are

constantly changing therefore continuous updating is necessary for the data to be relevant. Diseases fall into different categories, even a small difference in symptoms may result in categorising it in a different group altogether. Thus analysing data accurately is of critical importance. This book concentrates on diagnosing diseases like cancer or tumor from different modalities of images. This book is divided into the following domains: Importance of big data in medical imaging, pre-processing, image registration, feature extraction, classification and retrieval. It is further supplemented by the medical analyst for a continuous treatment process. The book provides an automated system that could retrieve images based on user's interest to a point of providing decision support. It will help medical analysts to take informed decisions before planning treatment and surgery. It will also be useful to researchers who are working in problems involved in medical imaging.

Coal Miners Brian Elliot,2015-03-31 There have been many books published about the coal mining industry of Britain but relatively few about the miners themselves. This book is unique in that it concentrates on the miner, his family and his work through a careful selection of illustrations. Although most of the images are photographic, and therefore relate to the latter part of the nineteenth to the closing years of twentieth century, use is also made of much earlier sources, from woodcuts and engravings to illustrations in contemporary journals and magazines. ??A good deal of the material has come from the author's own collection, accumulated over many years of research; and also from archive sources. The selection is wide ranging, covering the traditional coal mining regions of Britain, from Scotland and northern England, through the midland coalfields and to Wales, as well as images from smaller coalfields such as Cumbria and Somerset. ??Today, coal mining is a virtually a lost industry and the men, women and children involved in what was once Britain's most important economic but most dangerous activity deserve both

recognition and celebration.

Hybrid Soft Computing for Image Segmentation Siddhartha Bhattacharyya,Paramartha Dutta,Sourav De,Goran Klepac,2016-11-12 This book proposes soft computing techniques for segmenting real-life images in applications such as image processing, image mining, video surveillance, and intelligent transportation systems. The book suggests hybrids deriving from three main approaches: fuzzy systems, primarily used for handling real-life problems that involve uncertainty; artificial neural networks, usually applied for machine cognition, learning, and recognition; and evolutionary computation, mainly used for search, exploration, efficient exploitation of contextual information, and optimization. The contributed chapters discuss both the strengths and the weaknesses of the approaches, and the book will be valuable for researchers and graduate students in the domains of image processing and computational intelligence.

Mining Photography Siobhan Angus,Nadia Bozak,Brett Neilson,Christoph Ribbat,Karen Solie,2022 A political history of photography's ecological impact, from its origins to the present Photography has always depended on the extraction and exploitation of raw materials. Having started out using copper, coal, silver and paper in the 19th and 20th centuries, photography now relies, in the age of the smartphone, on rare metals such as coltan, cobalt and europium. This volume focuses on the history of the raw materials utilized in photography, establishing a connection between the history of their extraction, their disposal and climate change. Looking at historical and contemporary works, it demonstrates that the medium is deeply implicated in human-induced changes to nature. Photographers include: Ignacio Acosta, Eduard Christian Arning, Lisa Barnard, Hermann Biow, F&D Cartier, Oscar and Theodor Hofmeister, Susanne Kriemann, Jürgen Friedrich Mahrt, Mary Mattingly, Daphné Nan Le Sergent, Lisa Rave, Hermann Reichling, Alison Rossiter, Metabolic Studio's Optics Division, Robert Smithson,

Simon Starling, Anaïs Tondeur, James Welling, Noa Yafe and Tobias Zielony.

Video Mining Azriel Rosenfeld,David Doermann,Daniel DeMenthon,2013-03-09 Traditionally, scientific fields have defined boundaries, and scientists work on research problems within those boundaries. However, from time to time those boundaries get shifted or blurred to evolve new fields. For instance, the original goal of computer vision was to understand a single image of a scene, by identifying objects, their structure, and spatial arrangements. This has been referred to as image understanding. Recently, computer vision has gradually been making the transition away from understanding single images to analyzing image sequences, or video Video understanding deals with understanding of video understanding. sequences, e.g., recognition of gestures, activities, facial expressions, etc. The main shift in the classic paradigm has been from the recognition of static objects in the scene to motion-based recognition of actions and events. Video understanding has overlapping research problems with other fields, therefore blurring the fixed boundaries. Computer graphics, image processing, and video databases have obvi ous overlap with computer vision. The main goal of computer graphics is to generate and animate realistic looking images, and videos. Re searchers in computer graphics are increasingly employing techniques from computer vision to generate the synthetic imagery. A good exam pIe of this is image-based rendering and modeling techniques, in which geometry, appearance, and lighting is derived from real images using computer vision techniques. Here the shift is from synthesis to analy sis followed by synthesis. Image processing has always overlapped with computer vision because they both inherently work directly with images.

Shadow Algorithms Data Miner Andrew Woo,Pierre Poulin,2012-06-12 Shadow Algorithms Data Miner provides a high-level understanding of the complete set of shadow concepts

and algorithms, addressing their usefulness from a larger graphics system perspective. It discusses the applicability and limitations of all the direct illumination approaches for shadow generation. With an emphasis on shadow fundamentals, the book gives an organized picture of the motivations, complexities, and categorized algorithms available to generate digital shadows. It helps readers select the most relevant algorithms for their needs by placing the shadow algorithms in real-world contexts and looking at them from a larger graphics system perspective. As a result, readers know where to start for their application needs, which algorithms to begin considering, and which papers and supplemental material should be consulted for further details.

The American Coal Miner United States. President's Commission on Coal,1980 At the conclusion of the 110-day coal miners' strike in March of 1978, President Carter appointed John D. (Jay) Rockefeller IV to head up the first major federal study of coal mining in America in three decades. One of the main tasks of the President's Commission on Coal (PCC) was, in the words of Ben Franklin who covers coal for the New York Times, to search out the roots of labor management bitterness that not only prolonged the record walkout but for decades has resulted in strikes every three years. To President Carter, who expressed a desire to place greater emphasis on domestically produced coal as an energy source, and to business interests, there were questions of great importance. -- review essay by Alan Banks, Appalachian Journal , SUMMER 1982, Vol. 9, No. 4 (SUMMER 1982), pp. 295-301.

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