

Images

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Images and Artefacts of the Ancient World Springer Science & Business Media High-quality images have an amazing power of attraction. Just add some stunning photos and graphics to your website or app and watch your user engagement and conversion numbers climb. It can be tricky, but with this practical guide, you'll master the many facets of delivering high performance images on the internet—without adversely affecting site performance. You'll learn the nuts and bolts of color theory, image formats, storage and management, operations delivery, browser and application behavior, the responsive web, and many other topics. Ideal for developers, this book also provides useful tips, tricks, and practical theory for processing and displaying powerful images that won't slow down your online product. Explore digital image theory and the different formats available Dive into JPEGs, SVG and vector images, lossless compression, and other formats Use techniques for downloading and rendering images in a browser, and for loading images on mobile devices and cellular networks Examine specific rendering techniques, such as lazy loading, image processing, image consolidation, and responsive images Take responsive images to the next level by using content negotiation between browser and server with the Client Hints HTTP standard Learn how to operationalize your image workflow Contributors include Colin Bendell, Tim Kadlec, Yoav Weiss, Guy Podjarny, Nick Doyle, and Mike McCall from Akamai Technologies.

Nanotechnology for Biomedical Imaging and Diagnostics CRC Press Scientific and technical leaps forward in recent years have introduced a new dimension into the study of objects from the ancient world. In 2000 a discussion meeting was held at the Royal Society in London with the aim of debating the potential of this image enhancement' among archaeologists, historians and scientists.

MR Imaging of the Pancreas, An Issue of Magnetic Resonance Imaging Clinics of North America E-Book Springer

An extraordinary memoir by Iris Origo, who chronicled political life in A Chill in the Air and War in Val d'Orcia, and now turns inward to describe her own family, the work of writing, and the transience of memory. Images and Shadows, Iris Origo's autobiographical account of her early life, is as perceptive and humane and beautifully written as her celebrated memoir War in Val d'Orcia. Origo's father came from an old and moneyed American family, her mother was the daughter of an Irish peer, and Iris grew up in the most privileged of circumstances. Her father died of tuberculosis when he was only thirty, and her mother moved to Fiesole, Italy, where she and Iris developed a close friendship with the great connoisseur and art historian Bernard Berenson. Later, Origo and her Italian husband transformed a desolate and deforested Tuscan property into a flourishing estate, and it was there that she discovered her true calling as a writer. In Images and Shadows, Origo paints portraits of her shy, loving father and her headstrong mother, and describes beloved places, the books that formed her sensibility, and how she grew up and made her way in the world. She reflects on the pleasures and challenges of writing and evokes the persistence and fragility of memory. Images and Shadows is an autobiography that is as thoughtful as it is profoundly touching.

Image Understanding Workshop MIT Press Magnetic resonance imaging has already become a most valuable imaging modality in the diagnostic work-up of musculoskeletal neoplasms. While high accuracy of MRI for staging purposes has been proven, we will focus in this monograph on the characterization of primary bone and soft tissue tumors by MRI. The major purpose of this monograph

is to provide an atlas of magnetic resonance features of primary bone and soft tissue tumors for radiologists, orthopedic surgeons and physiotherapists. The results presented are based on investigations of 94 primary bone and soft tissue tumors and mimicking conditions by magnetic resonance imaging. Although the scale of the material allows for statistical handling, the number of patients per subgroup is too small to come to definite conclusions. We will therefore limit ourselves to the description of and comments on a great number of cases to illustrate the diagnostic potential of this new imaging modality. We would like to thank the anonymous cooperators: referring clinicians, pathologists, nurses, technicians and secretaries whose help enabled us to present this monograph. We would also like to express our gratitude to the firms Siemens AG and Schering AG for technical support.

Multi-scale Computer Vision Theory and Applications, written in Mathematica Springer

An examination of how artists have combined performance and moving image for decades, anticipating our changing relation to images in the internet era. In Performing Image, Isobel Harbison examines how artists have combined performance and moving image in their work since the 1960s, and how this work anticipates our changing relations to images since the advent of smart phones and the spread of online prosumerism. Over this period, artists have used a variety of DIY modes of self-imaging and circulation—from home video to social media—suggesting how and why Western subjects might seek alternative platforms for self-expression and self-representation. In the course of her argument, Harbison offers close analyses of works by such artists as Robert Rauschenberg, Yvonne Rainer, Mark Leckey, Wu Tsang, and Martine Syms. Harbison argues that while we produce images, images also produce us—those that we take and share, those that we see and assimilate through mass media and social media, those that we encounter in museums and galleries. Although all the artists she examines express their relation to images uniquely, they also offer a vantage point on today's productive-consumptive image circuits in which billions of us are caught. This unregulated, all-encompassing image performativity, Harbison writes, puts us to work, for free, in the service of global corporate expansion. Harbison offers a three-part interpretive framework for understanding this new proximity to images as it is negotiated by these artworks, a detailed outline of a set of connected practices—and a declaration of the value of art in an economy of attention and a crisis of representation.

Science and Engineering of Medical Imaging Springer Science & Business Media

Image Processing and Pattern Recognition covers major applications in the field, including optical character recognition, speech classification, medical imaging, paper currency recognition, classification reliability techniques, and sensor technology. The text emphasizes algorithms and architectures for achieving practical and effective systems, and presents many examples. Practitioners, researchers, and students in computer science, electrical engineering, and radiology, as well as those working at financial institutions, will value this unique and authoritative reference to diverse applications methodologies. Coverage includes: Optical character recognition Speech classification Medical imaging Paper currency recognition Classification reliability techniques Sensor technology Algorithms and architectures for achieving practical and effective systems are emphasized, with many examples illustrating the text. Practitioners, researchers, and students in computer science, electrical engineering, and radiology, as well as those working at financial institutions, will find this volume a unique and comprehensive reference source for this diverse applications area.

Images and Shadows Springer

Image Bite Politics is the first book to systematically assess the visual presentation of presidential candidates in network news coverage of elections and to connect these visual images with shifts in public opinion. Presenting the results of a comprehensive visual analysis of general election news from 1992-2004, encompassing four presidential campaigns, the authors highlight the remarkably potent influence of television images when it comes to evaluating leaders. The book draws from a variety of disciplines, including political science, behavioral biology, cognitive neuroscience, and media studies, to investigate the visual framing of elections in an incisive, fresh, and interdisciplinary fashion. Moreover, the book presents findings that are counterintuitive and challenge widely held assumptions--yet are supported by systematic data. For example, Republicans receive consistently more favorable visual treatment than Democrats, countering the conventional wisdom of a "liberal media bias"; and image bites are more prevalent, and in some elections more potent, in shaping voter opinions of candidates than sound bites. Finally, the authors provide a foundation for promoting visual literacy among news audiences and bring the importance of visual analysis to the forefront of research.

Second International Conference, Cambridge, UK, September 19-22, 1999, Proceedings CRC Press

Remote Sensing Image Fusion: A Practical Guide gives an introduction to remote sensing image fusion providing an overview on the sensors

and applications. It describes data selection, application requirements and the choice of a suitable image fusion technique. It comprises a diverse selection of successful image fusion cases that are relevant to other users and other areas of interest around the world. The book helps newcomers to obtain a quick start into the practical value and benefits of multi-sensor image fusion. Experts will find this book useful to obtain an overview on the state of the art and understand current constraints that need to be solved in future research efforts. For industry professionals the book can be a great introduction and basis to understand multisensor remote sensing image exploitation and the development of commercialized image fusion software from a practical perspective. The book concludes with a chapter on current trends and future developments in remote sensing image fusion. Along with the book, RSIF website provides additional up-to-date information in the field. Candidates and Their Images Springer

This issue of MRI Clinics of North America focuses on MR Imaging of the Pancreas, and is edited by Drs. Kumar Sandrasegaran and Dushyant V. Sahani. Articles will include: Advanced MRI Techniques for Pancreas Imaging; PET/MRI for Pancreatic Diseases; The Role of MRI in Pancreas Cancer; Genetics of Pancreatic Neoplasms and Role of Screening; Cystic Pancreatic Tumors; Rare Pancreatic Tumors; Autoimmune Pancreatitis; Routine MRI for Pancreas; Neuroendocrine Tumors; Acute Pancreatitis: How Can MRI Help; Chronic Pancreatitis: What the Clinician Wants to Know from MRI; and more!

15th International Conference Vietri sul Mare, Italy, September 8-11, 2009 Proceedings Springer

This volume documents the results and presentations relating to the use of wavelet theory and other methods in surface fitting and image reconstruction of the Second International Conference on Curves and Surfaces, held in Chamonix in 1993. The papers represent directions for future research and development in many areas of application.

Recent Trends in Image Processing and Pattern Recognition CRC Press

Several recent papers underline methodological points that limit the validity of published results in imaging studies in the life sciences and especially the neurosciences (Carp, 2012; Ingre, 2012; Button et al., 2013; Ioannidis, 2014). At least three main points are identified that lead to biased conclusions in research findings: endemic low statistical power and, selective outcome and selective analysis reporting. Because of this, and in view of the lack of replication studies, false discoveries or solutions persist. To overcome the poor reliability of research findings, several actions should be promoted including conducting large cohort studies, data sharing and data reanalysis. The construction of large-scale online databases should be facilitated, as they may contribute to the definition of a “ collective mind ” (Fox et al., 2014) facilitating open collaborative work or “ crowd science ” (Franzoni and Sauermann, 2014). Although technology alone cannot change scientists ’ practices (Wicherts et al., 2011; Wallis et al., 2013, Poldrack and Gorgolewski 2014; Roche et al. 2014), technical solutions should be identified which support a more “ open science ” approach. Also, the analysis of the data plays an important role. For the analysis of large datasets, image processing pipelines should be constructed based on the best algorithms available and their performance should be objectively compared to diffuse the more relevant solutions. Also, provenance of processed data should be ensured (MacKenzie-Graham et al., 2008). In population imaging this would mean providing effective tools for data sharing and analysis without increasing the burden on researchers. This subject is the main objective of this research topic (RT), cross-listed between the specialty section “ Computer Image Analysis ” of Frontiers in ICT and Frontiers in Neuroinformatics. Firstly, it gathers works on innovative solutions for the management of large imaging datasets possibly distributed in various centers. The paper of Danso et al. describes their experience with the integration of neuroimaging data coming from several stroke imaging research projects. They detail how the initial NeuroGrid core metadata schema was gradually extended for capturing all information required for future metaanalysis while ensuring semantic interoperability for future integration with other biomedical ontologies. With a similar preoccupation of interoperability, Shanoir relies on the OntoNeuroLog ontology (Temal et al., 2008; Gibaud et al., 2011; Batrancourt et al., 2015), a semantic model that formally described entities and relations in medical imaging, neuropsychological and behavioral assessment domains. The mechanism of “ Study Card ” allows to seamlessly populate metadata aligned with the ontology, avoiding fastidious manual entrance and the automatic control of the conformity of imported data with a predefined study protocol. The ambitious objective with the BIOMIST platform is to provide an environment managing the entire cycle of neuroimaging data from acquisition to analysis ensuring full provenance information of any derived data. Interestingly, it is conceived based on the product

lifecycle management approach used in industry for managing products (here neuroimaging data) from inception to manufacturing. Shanoir and BIOMIST share in part the same OntoNeuroLog ontology facilitating their interoperability. ArchiMed is a data management system locally integrated for 5 years in a clinical environment. Not restricted to Neuroimaging, ArchiMed deals with multi-modal and multi-organs imaging data with specific considerations for data long-term conservation and confidentiality in accordance with the French legislation. Shanoir and ArchiMed are integrated into FLI-IAM1, the national French IT infrastructure for in vivo imaging.

Medical Image Computing and Computer-Assisted Intervention - MICCAI'99 Mercer University Press

An examination of how artists have combined performance and moving image for decades, anticipating our changing relation to images in the internet era. In Performing Image, Isobel Harbison examines how artists have combined performance and moving image in their work since the 1960s, and how this work anticipates our changing relations to images since the advent of smart phones and the spread of online prosumerism. Over this period, artists have used a variety of DIY modes of self-imaging and circulation—from home video to social media—suggesting how and why Western subjects might seek alternative platforms for self-expression and self-representation. In the course of her argument, Harbison offers close analyses of works by such artists as Robert Rauschenberg, Yvonne Rainer, Mark Leckey, Wu Tsang, and Martine Syms. Harbison argues that while we produce images, images also produce us—those that we take and share, those that we see and assimilate through mass media and social media, those that we encounter in museums and galleries. Although all the artists she examines express their relation to images uniquely, they also offer a vantage point on today's productive-consumptive image circuits in which billions of us are caught. This unregulated, all-encompassing image performativity, Harbison writes, puts us to work, for free, in the service of global corporate expansion. Harbison offers a three-part interpretive framework for understanding this new proximity to images as it is negotiated by these artworks, a detailed outline of a set of connected practices—and a declaration of the value of art in an economy of attention and a crisis of representation.

Satellite Image Analysis: Clustering and Classification "O'Reilly Media, Inc."

Professor Ramsey undertook a massive project and brought it to a magnificent conclusion. The MR images are of high quality and [the] well-written commentary is easy to understand. Well worth the investment...-Radiologic Technology I strongly recommend this book to individuals who are required to interpret MRIs of the vertebral column and the spinal cord... great practical use to clinicians... very absorbing; it was easy to read an entire section in one sitting.-The Journal of Bone and Joint Surgery The author has met her purpose in producing a user-friendly spinal imaging atlas that will aid clinicians caring for patients with spine disease.-Radiology Containing nearly 1,000 illustrations and a broad array of case studies, this comprehensive, practical reference simulates an actual clinical setting in which readers view images of a spinal abnormality and then see the correct differential diagnosis. The book contains hundreds of instructive cases, and is ideal for teaching and self-assessment. Practical and complete, the book offers a broad array of classic and unusual cases for residents and practicing surgeons. This easy-to-use resource is the perfect tool for qualifying and CAQ exam preparation.

Teaching Atlas of Spine Imaging Society of Photo Optical

Many approaches have been proposed to solve the problem of finding the optic flow field of an image sequence. Three major classes of optic flow computation techniques can discriminated (see for a good overview Beauchemin and Barron IBeauchemin19951): gradient based (or differential) methods; phase based (or frequency domain) methods; correlation based (or area) methods; feature point (or sparse data) tracking methods; In this chapter we compute the optic flow as a dense optic flow field with a multi scale differential method. The method, originally proposed by Florack and Nielsen [Florack1998a] is known as the Multiscale Optic Flow Constrain Equation (MOFCE). This is a scale space version of the well known computer vision implementation of the optic flow constraint equation, as originally proposed by Horn and Schunck [Horn1981]. This scale space variation, as usual, consists of the introduction of the aperture of the observation in the process. The application to stereo has been described by Maas et al. [Maas 1995a, Maas 1996a]. Of course, difficulties arise when structure emerges or disappears, such as with occlusion, cloud formation etc. Then knowledge is needed about the processes and objects involved. In this chapter we focus on the scale space approach to the local measurement of optic flow, as we may expect the visual front end to do.

17. 2 Motion detection with pairs of receptive fields As a biologically motivated start, we begin with discussing some neurophysiological findings in the visual system with respect to motion detection.

Medical Image Computing and Computer Assisted Intervention — MICCAI 2020 A&C Black

This dedicated overview of optical compressive imaging addresses implementation aspects of the revolutionary theory of compressive sensing (CS) in the field of optical imaging and sensing. It overviews the technological opportunities and challenges involved in optical design and implementation, from basic theory to optical architectures and systems for compressive imaging in various spectral regimes, spectral and hyperspectral imaging, polarimetric sensing, three-dimensional imaging, super-resolution imaging, lens-free, on-chip microscopy, and phase sensing and retrieval. The reader will gain a complete introduction to theory, experiment, and practical use for reducing hardware, shortening image scanning time, and improving image

resolution as well as other performance parameters. Optics practitioners and optical system designers, electrical and optical engineers, mathematicians, and signal processing professionals will all find the book a unique trove of information and practical guidance. Delivers the first book on compressed sensing dealing with system development for a wide variety of optical imaging and sensing applications. Covers the fundamentals of CS theory, including noise and algorithms, as well as basic design approaches for data acquisition in optics. Addresses the challenges of implementing compressed sensing theory in the context of different optical imaging designs, from 3D imaging to tomography and microscopy. Provides an essential resource for the design of new and improved devices with improved image quality and shorter acquisition times. Adrian Stern, PhD, is associate professor and head of the Electro-Optical Engineering Unit at Ben-Gurion University of the Negev, Israel. He is an elected Fellow of SPIE.

Concepts, Methods, and Findings Karolinum Press

Comic books have increasingly become a vehicle for serious social commentary and, specifically, for innovative religious thought. Practitioners of both traditional religions and new religious movements have begun to employ comics as a missionary tool, while humanists and religious progressives use comics' unique fusion of text and image to criticize traditional theologies and to offer alternatives. Addressing the increasing fervor with which the public has come to view comics as an art form and Americans' fraught but passionate relationship with religion, Graven Images explores with real insight the roles of religion in comic books and graphic novels. In essays by scholars and comics creators, Graven Images observes the frequency with which religious material in devout, educational, satirical, or critical contexts occurs in both independent and mainstream comics. Contributors identify the unique advantages of the comics medium for religious messages; analyze how comics communicate such messages; place the religious messages contained in comic books in appropriate cultural, social, and historical frameworks; and articulate the significance of the innovative theologies being developed in comics.

Islam and the Heroic Image Springer Nature

This volume discusses membrane potential imaging in the nervous system and in the heart and modern optical recording technology. Additionally, it covers organic and genetically-encoded voltage-sensitive dyes; membrane potential imaging from individual neurons, brain slices, and brains in vivo; optical imaging of cardiac tissue and arrhythmias; bio-photonics modelling. This is an expanded and fully-updated second edition, reflecting all the recent advances in this field. Twenty chapters, all authored by leading names in the field, are cohesively structured into four sections. The opening section focuses on the history and principles of membrane potential imaging and lends context to the following sections, which examine applications in single neurons, networks, large neuronal populations and the heart. Topics discussed include population membrane potential signals in development of the vertebrate nervous system, use of membrane potential imaging from dendrites and axons, and depth-resolved optical imaging of cardiac activation and repolarization. The final section discusses the potential — and limitations — for new developments in the field, including new technology such as non-linear optics, advanced microscope designs and genetically encoded voltage sensors. Membrane Potential Imaging in the Nervous System and Heart is ideal for neurologists, electro physiologists, cardiologists and those who are interested in the applications and the future of membrane potential imaging.

Spectra and Photographic Magnitudes of Stars in Standard Regions High Performance ImagesShrink, Load, and Deliver Images for Speed

This book focuses on the fundamentals and recent advances in RGB-D imaging as well as covering a range of RGB-D applications. The topics covered include: data acquisition, data quality assessment, filling holes, 3D reconstruction, SLAM, multiple depth camera systems, segmentation, object detection, salience detection, pose estimation, geometric modelling, fall detection, autonomous driving, motor rehabilitation therapy, people counting and cognitive service robots. The availability of cheap RGB-D sensors has led to an explosion over the last five years in the capture and application of colour plus depth data. The addition of depth data to regular RGB images vastly increases the range of applications, and has resulted in a demand for robust and real-time processing of RGB-D data. There remain many technical challenges, and RGB-D image processing is an ongoing research area. This book covers the full state of the art, and consists of a series of chapters by internationally renowned experts in the field. Each chapter is written so as to provide a detailed overview of that topic. RGB-D Image Analysis and Processing will enable both students and professional developers alike to quickly get up to speed with contemporary techniques, and apply RGB-D imaging in their own projects.

On Images Frontiers Media SA

Consistently rated as the best overall introduction to computer-based image processing, The Image Processing Handbook covers two-dimensional (2D) and three-dimensional (3D) imaging techniques, image printing and storage methods, image processing algorithms, image and feature measurement, quantitative image measurement analysis, and more. Incorporating image processing and analysis examples at all scales, from nano- to astro-, this Seventh Edition: Features a greater range of computationally intensive algorithms than previous versions Provides better organization, more quantitative results, and new material on recent developments Includes completely rewritten chapters on 3D imaging and a thoroughly revamped chapter on statistical analysis Contains more than 1700 references to theory, methods, and applications in a wide variety of disciplines Presents 500+ entirely

new figures and images, with more than two-thirds appearing in color The Image Processing Handbook, Seventh Edition delivers an accessible and up-to-date treatment of image processing, offering broad coverage and comparison of algorithms, approaches, and outcomes. Themes in Literature and the Visual Arts British Academy Occasional Pap

This book constitutes the refereed proceedings of the Second International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI'99, held in Cambridge, UK, in September 1999. The 133 revised full papers presented were carefully reviewed and selected from a total of 213 full-length papers submitted. The book is divided into topical sections on data-driven segmentation, segmentation using structural models, image processing and feature detection, surfaces and shape, measurement and interpretation, spatiotemporal and diffusion tensor analysis, registration and fusion, visualization, image-guided intervention, robotic systems, and biomechanics and simulation.