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About to Die - Barbie Zelizer 2010-12-01
Due to its ability to freeze a moment in time, the photo is a uniquely powerful device for ordering and understanding the world. But when an image depicts complex, ambiguous, or controversial events--terrorist attacks, wars, political assassinations--its ability to influence perception can prove deeply unsettling. Are we really seeing the world "as it is" or is the image a fabrication or projection? How do a photo's content and form shape a viewer's impressions? What do such images contribute to historical memory? About to Die focuses on one emotionally charged category of news photograph--depictions of individuals who are facing imminent death--as a prism for addressing such vital questions. Tracking events as wide-ranging as the 1906 San Francisco Earthquake, the Holocaust, the Vietnam War, and 9/11, Barbie Zelizer demonstrates that modes of journalistic depiction and the power of the image are immense cultural forces that are still far from understood. Through a survey of a century of photojournalism, including close analysis of over sixty photographs, About to Die provides a framework and vocabulary for understanding the news imagery that so profoundly shapes our view of the world.

Medical Image Computing and Computer Assisted Intervention - MICCAI 2020 - Anne L. Martel 2020-10-02
The seven-volume set LNCS 12261, 12262, 12263, 12264, 12265, 12266, and 12267 constitutes the refereed proceedings of the 23rd International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2020, held in Lima, Peru, in October 2020. The conference was held virtually due to the COVID-19 pandemic. The 542 revised full papers presented were carefully reviewed and selected from 1809 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: machine learning methodologies Part II: image reconstruction; prediction and diagnosis; cross-domain methods and reconstruction; domain adaptation; machine learning applications; generative adversarial networks Part III: CAI applications; image registration; instrumentation and surgical phase detection; navigation and visualization; ultrasound imaging; video image analysis Part IV: segmentation; shape models and landmark detection Part V: biological, optical, microscopic imaging; cell segmentation and stain normalization; histopathology image analysis; ophthalmology Part VI: angiography and vessel analysis; breast imaging; colonoscopy; dermatology; fetal imaging; heart and lung imaging; musculoskeletal imaging Part VI: brain development and atlases; DWI and tractography; functional brain networks; neuroimaging; positron emission tomography

RGB-D Image Analysis and Processing - Paul L. Rosin 2019-10-26
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.

This three-book set constitutes the refereed proceedings of the Second International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2018, held in Solapur, India, in December 2018. The 173 revised full papers presented were carefully reviewed and selected from 374 submissions. The papers are organized in topical sections in the tree volumes. Part I: computer vision and pattern recognition; machine learning and applications; and image processing. Part II: healthcare and medical imaging; biometrics and applications. Part III: document image analysis; image analysis in agriculture; and data mining; information retrieval and applications.

Unforgettable - Peter Davenport 2003-06
The Hindenberg disaster. Andy Warhol's Campbells Soup Can. Marilyn Monroe standing over the subway grating. The first step onto the Moon. These powerful images have left an indelible impression in our collective mind's eye. This mesmerizing little volume celebrates these and hundreds of other artistic and cultural touchstones without actually reproducing them. Each page is devoted to a single image, with a caption providing its title or description and the date that it was created. Just that information evokes the image vividly. The page itself is blank. Dorothea Lange's Migrant Mother. The album cover of Sgt. Pepper. A man facing a row of tanks in Tiananmen Square. Arranged in chronological order from 1900 to the present, these images are a testament to the enduring impact of photography, art, and the images well as to the graphic precision of our shared memory bank. It's also a great pop quiz on cultural literacy.

Introduction to Image Processing - André Marion 1991-01-01
I. The past. the present . . . and the future It is possible to take the view that ever since it began, the "ancient" branch of physics known as Optics has been concerned with process ing images. But since the Nineteen-Thirties increasingly close ties have been forming between Optics, which until then had been largely based on instruments, and the sciences of communication and infor mation arising out of mathematics and electronics. Such developments follow naturally, since communication systems and image-forming systems are all designed to receive or transmit information. Further more the same mathematical forms are used for describing the beha viour of electrical and optical systems. It is a question of systems theory, particularly linear systems, and of Fourier's analysis methods, which together constitute an important part of Signal Theory. In the case of communication systems carrying signals of an electrical nature, information is time-related or temporal. Transmitted signals are one-dimensional and functions of a single variable, time t. In the case of optical systems information is spatial in nature. Signals are distributions of light intensity in space. In general they are treated as two-dimensional signals, being functions of two spatial variables written as x and y. In the early Fifties the way forward became clearer still when some scientists at the Institut d'Optique in Paris began using optical filtering techniques in coherent light in order to enhance the quality of photographs.

Book of Images - Erik Kessels 2020-01-30
This Book of Images comes as a true storm, full of ideas on how to think differently about photography and context. How they can blend in with each other, enhance each other or clash with each other, creating an adventure that goes far further than basic, passive viewing. Images on buildings, under water, up in the sky, printed, projected, still, moving, tiny or extremely large. You can touch them, smell them, play with them and immerse in them. This is a celebration of photography in its greatest form. Learn how to look
differently and see more, and get inspired by this book on how to SHOW photography’ - Erik Kessels
Discover how to: reel and unreel with Francis Alys . go to jail with John Baldessari . play hide-and-seek with Liu Bolin . fight for your copyrights with René Burri . fly a drone with Tadao Cerna . investigate crimes with Matt Collishaw . travel to the moon with Carmen De Middel . start to count with Hans Eijkelboom . count numbers with Hans Peter Feldman . go for a road trip with Lee Friedlander . ride a funeral train with Paul Fusco . play with shadows with Shilpa Gupta . take an inside out selfie with JR . upload pictures with Erik Kessels . inflate a whale with Daido Moriyama . listen to street music with Christian Marclay . scuba dive with Guido Mocafico . stand on your head with Arnold Odermat . shoot crazy music videos with Ok Go . enter a picture with Martin Parr . open a drugstore with Christian Patterson . get lost in a crowd with Alex Prager . choose a gun with Andres Serrano . be supersized with Cindy Sherman . shoot a target with Roman Signer . sleep with Alec Soth . drill images with Vhils . build a house with Erwin Wurm...
Performing Image - Isobel Harbison 2016-11-17
An examination of how artists have combined performance and moving image for decades, anticipating our changing relationship 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—as 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 undiscerning users all engage in consuming and regurgitating information and culture, often unintentionally. Harbison organizes the book with reference to the four main careers that artists in this period have pursued: (1) performance and moving image work, (2) photographic work, (3) installations and other forms of spatially immersive work, and (4) multimedia works that combine different forms. In its 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.
Combinatorial Image Analysis - Valentin E. Brimkov 2017-05-15
This book constitutes the proceedings of the 18th International Workshop on Combinatorial Image Analysis, IWCA 2017, held in Plovdiv, Bulgaria, in June 2017. The 27 revised full papers presented were carefully reviewed and selected from 47 submissions. The workshop is organized in topical sections of theoretical foundations and theory of applications, namely: discrete geometry and topology; tilings and patterns; grammars, models and other technical tools for image analysis; image segmentation, classification; reconstruction; compression; texture analysis; bioimaging.
Optical Compressive Imaging - Adrian Stern 2016-11-17
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.
Image and Memory - Wendy Watriss 1998
Fotofest 1992, a major festival of international photography, brought Latin American photography into focus for a wide audience. Offering a diverse selection of photographers, countries, artistic movements, and subject matter, the show revealed a photographic tradition rich in history and creativity. Drawing from the more than 1,000 images exhibited by Fotofest, this book documents the work of fifty-two photographers from ten countries. The photographs range from the opening of the Brazilian frontier in the 1880s to a secret archive of documentary images from El Salvador’s recent civil war to works of specifically aesthetic intent. Many of the photographs appear here in print for the first time. Watriss’s opening essay provides the curatorial overview for the book. Lois Zamora examines the roots of visual image-making in Latin American cultures. Boris Kossoy addresses the history of Latin American photography through the nineteenth century. Sanford Grotvold provides a contemporary perspective. With its compelling images and English/Spanish text, this book will serve as a benchmark for future studies of photography in Latin America.
Images People Google - Richard Stanley 2020-07-24
To illustrate a point in conversation, I often grab my iPhone, tap in a descriptor and choose "Image". In a flash, images on my screen include the object of my curiosity. How what I’m looking for is displayed, in a neatly tiled collection with its own internal order, is its own delight. I’m a born collector, and the digital universe accommodates excess beautifully. I can make photographs profligately--without regard for the expenses of wet photography. Making a digital image, its review and storage are nearly free. At last, I can collect images with abandon. Sometimes, the array called up by my image searches is richer than any flea market’s variety and juxtaposition. Gathered together, these images can energize each other by their contrasting proximity. Photographers are especially attracted to recording surprises, the off-beat, the unorthodox. Harbison writes, putting it this way: ‘‘If I hadn’t recorded these marvelous collections, they would be just so much other lost ephemera of our time. I had to act, to say, “Hold on a moment more”, and to hit “Save”’.These images are about patterns of ideas–graphic patterns, popular patterns of preference and a pattern of censorship in the images we see in the United States are allowed to see. Each collection is a response by Google Images to a search command by me. The collections may be visual homographs—different images that derive from the same word, eg., “rod” could be a fishing rod, a hot rod, a stick, a gun or a man named Rod, as in Stewart or Serling. Some collections are of different iterations of the same thing: of a painting or animal. I am fascinated by the interrelationships of the separate images: the series and sequences produced seemingly, but not really, at random. The preference pattern is an instant poll of the users in the Internet universe as to which images they select most at that moment. The results reflect the most favored image at the top.
Intelligent Image Processing in Prolog - Bruce G. Batchelor 2012-12-06
After a slow and somewhat tentative beginning, machine vision systems are now finding widespread use in industry. So far, there have been four clearly discernible phases in their development, based upon the types of images processed and how that processing is performed: (1) Binary (two level) images, processing in software (2) Grey-scale images, processing in software (3) Binary or grey-scale images processed in fast, special-purpose hardware (4) Coloured/multi-spectral images Third-generation vision systems are now commonplace, although a large number of binary and software-based grey-scale processing systems are still being sold. At the moment, colour image processing is commercially much less significant than the other three and this situation may well remain for some time, since many industrial artifacts are nearly monochrome and the use of colour increases the cost of the equipment significantly. A great deal of colour image processing is a straightforward extension of standard grey-scale methods. Industrial applications of machine vision systems can be also sub-divided, this time into two main areas, which have largely retained distinct identities: (i) Automated Visual Inspection (A VI) (ii) Robot Vision (RV) This book is about a fifth generation of industrial vision systems, in which this distinction, based on applications, is blurred and the processing is marked by being much smarter (i. e. more “intelligent”) than in the other four generations.
MR Imaging of the Pancreas, An Issue of Magnetic Resonance Imaging Clinics of North America E-Book -
Kumar Sandrasegaran 2018-07-15
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!

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 columns 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 wonderfully splendid 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.

Mitsou - Balthus 1984

The Ground of the Image - Jean-Luc Nancy 2009-08-25
The renowned philosopher provides "noteworthy contributions to themes connected with images, imagination, representation, aesthetics, and...religion." —Journal of American Academy of Religion
What is this power that lies in the depths and recesses of an image—which is always only an impenetrable surface? What secrets are concealed in the ground or in the figures of an image—which never does anything but show just exactly what it is and nothing else? How does the immanence of images open onto their unimaginable others, their imageless origin? In this collection of writings on images and visual art, Jean-Luc Nancy explores such questions through an extraordinary range of references. From Renaissance painting and landscape to photography and video, from the image of Roman death masks to the language of silent film, from Cleopatra to Kant and Heidegger, Nancy pursues a reflection on visibility that goes far beyond the many disciplines with which it intersects. He offers insights into the religious, cultural, political, art historical, and philosophical aspects of the visual relation, treating such vexed problems as the connection between image and violence, the sacred status of images, and, in a profound and important essay, the forbidden representation of the Shoah. In the background of all these investigations lies a preoccupation with finitude, the unsettling forces envisaged by the images that confront us, the limits that bind us to them, the death that stalks back at us from their frozen traits and distant intimacies. In these vibrant and complex essays, a central figure in European philosophy continues to work through some of the most important questions of our time.

Candidates and Their Images - Dan D. Nimmo 1976

The Image Processing Handbook - John C. Russ 2018-09-03
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.

Islam and the Heroic Image - John Renard 1999
Throughout the world and over many centuries, the cultures in which Islam has been a major presence have created stories in word and picture to celebrate the men and women who best exemplify each culture’s aspirations. This is the story of how those heroic figures have both shaped and been shaped by the religious tradition called Islam.

On Images - Toshikiko Izutsu 1988

Handbook of Mathematical Models and Algorithms in Computer Vision and Imaging - Ke Chen 2023-02-24
This handbook gathers together the state of the art on mathematical models and algorithms for imaging and vision. Its emphasis lies on rigorous mathematical methods, which represent the optimal solutions to a class of imaging and vision problems, and on effective algorithms, which are necessary for the methods to be translated to practical use in various applications. Viewing discrete images as data sampled from functional surfaces enables the use of advanced tools from calculus, functions and calculus of variations, and nonlinear optimization, and provides the basis of high-resolution imaging through geometry and variational models. Besides, optimization naturally connects traditional model-driven approaches to the emerging data-driven approaches of machine and deep learning. No other framework can provide comparable accuracy and precision to imaging and vision. Written by leading researchers in imaging and vision, the chapters in this handbook all start with gentle introductions, which make this work accessible to graduate students. For newcomers to the field, the book provides a comprehensive and fast-track introduction to the content, to save time and get on with tackling new and emerging challenges. For researchers, exposure to the state of the art of research works leads to an overall view of the entire field so as to guide new research directions and avoid pitfalls in moving the field forward and looking into the next decades of imaging and information services. This work can greatly benefit graduate students, researchers, and practitioners in imaging and vision; applied mathematicians; medical imagers; engineers; and computer scientists.

Photography, Essays & Images - Beaumont Newhall 1980
Brings to life the scientists, artists, philosophers, innovators, and entrepreneurs who developed the art and science of photography.

Image Analysis and Processing -- ICIAP 2009 - Pasquale Foggia 2009-08-29
This book constitutes the refereed proceedings of the 15th International Conference on Image Analysis and Processing, ICIAP 2009, held in Vietri sul Mare, Italy, in September 2009. The 107 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 168 submissions. The papers are organized in topical sections on computer graphics and image processing, low and middle level processing, 2D and 3D segmentation, feature extraction and image analysis, object detection and recognition, video analysis and processing, pattern analysis and classification, learning, graphs and trees, applications, shape analysis, face analysis, medical imaging, and image analysis and pattern recognition.

Analysis and criticism of Picasso's painting Guernica and key related Picasso paintings. In addition, there are two unauthentic related drawings thought to be by Picasso by this author. Since this is a critique of art, quotes are considered by the author to be Fair Use.

High Performance Images - Colin Bendell 2016-11-03
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, and 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.

Clinical Endocrinology and Diagnostic Imaging - BrunoVá, Jana 2014-06-01

This monograph is based on the authors’ extensive experience in the areas of clinical endocrinology and diagnostic imaging, their clinical and research work and insight gained from teaching medical students and doctors in the Czech Republic and abroad. The chapters contain embryological and anatomical notes, clinical characteristics of individual endocrinopathies, laboratory and function tests, including reference values, indications and algorithms of imaging methods and principles of rational modern therapy of individual pathologies, including further clinical monitoring of patients. Texts also give practical advice regarding how to approach patients with endocrine gland diseases, point out some potential misinterpretations of examination results and are supplemented with numerous images of pathological states, which are almost exclusively sourced from the authors’ private archives. The chapter on diabetes mellitus centres on the complications of diagnosing diabetes and on the mutual relation between diabetes and other endocrinopathies. Focusing primarily on clinical practice, the work does not elaborate on pathophysiology, but covers only the most recent pertinent literature from the discipline. What makes this comprehensive publication exceptional is the fact that it not only presents the clinical view of the endocrinologist on the various covered subjects, but the reader is also given the opportunity to learn about current diagnostic trends using imaging methods. This interdisciplinary view offers the reader a comprehensive overview of the latest research and the current state of the field and the recent advances in the field. This monograph is intended for medical students, junior endocrinologists, diabetologists, radiologists and general practitioners interested in endocrinology, however, it can be useful also for doctors preparing for medical postgraduate certification in endocrinology and imaging methods as it undoubtedly provides valuable information.

Analysis and Interpretation of Range Images - Ramesh C. Jain 1990

Computer vision researchers have been frustrated in their attempts to automatically derive depth information from conventional two-dimensional intensity images. Research on "shape from texture", "shape from shading", and "shape from focus" is still in a laboratory stage and has not seen much use in commercial machine vision systems. A range image or a depth map contains explicit information about the distance from the sensor to the object surfaces within the field of view in the scene. Information about "surface geometry" is important for, say, three-dimensional object recognition is more easily extracted from "2 1/2 D" range images than from "2D" intensity images. As a result, both active sensors such as laser range finders and passive techniques such as multi-camera stereo vision are being increasingly utilized by vision researchers to solve a variety of problems. This book contains chapters written by distinguished computer vision researchers covering the following areas: Overview of 3D Vision Range Sensing Geometric Processing Object Recognition Navigation Inspection Multisensor Fusion A workshop report, written by the editors, also appears in the book. It summarizes the state of the art and proposes future research directions in range image sensing, processing, interpretation, and applications. The book also contains an extensive, up-to-date bibliography on the above topics. This book provides a unique perspective on the problem of three-dimensional sensing and processing; it is the only comprehensive collection of papers devoted to range images. Both academic researchers interested in research issues in 3D vision and industrial engineers in search of solutions to particular problems will find this a useful reference book.


How to Use Images - Lester Meachem 2010-05-28

This book teaches you how to select and use images for a range of applications, including: magazines and newspapers, posters, booklets, books, leaflets, stationery, book and CD covers, advertising and promotional material, packaging, point of purchase, web pages and digital advertisements. The book explores methodologies for choosing, placing, combining, manipulating and montaging imagery and the relationship of image to text. It has chapters on selection, structure and layout, composition, communication, colour, image potential, and production. Using fully illustrated case studies from leading graphic designers and practical exercises, the book provides professional insights and tips into ways of using pictures and will be invaluable for graphic design students.

Images and Artefacts of the Ancient World - British Academy 2005-05-26

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.

Front-End Vision and Multi-Scale Image Analysis - Bart M. Haar Romeny 2008-10-24

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 Barr IBeauchemin1995): 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 observation in the process. The application to stereo has been described by Maas et al. [Maas1995a, 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.

House of Images - Mig Alvarez Enriquez 1983

Seismic Data Interpretation using Digital Image Processing - Abdulatif A. Al-Shulaib 2017-06-05

Bridging the gap between modern image processing practices by the scientific community at large and the world of geology and reflection seismology. This book covers the basics of seismic exploration, with a focus on image processing techniques as applied to seismic data. Discussions of theories, concepts, and algorithms are followed by synthetic and real data examples to provide the reader with a practical understanding of the image processing technique and to enable the reader to apply these techniques to seismic data. The book will also help readers interested in devising new algorithms, software and hardware for interpreting seismic data. Key Features: Provides an easy to understand overview of popular seismic processing and interpretation techniques from the point of view of a digital signal processor. Presents image processing concepts that may be readily applied directly to seismic data. Includes ready-to-run MATLAB algorithms for most of the techniques presented. The book includes essential research and teaching material for digital signal and image processing individuals interested in learning seismic data interpretation from the point of view of digital signal processing. It is an ideal resource for students, professors and working professionals who are interested in learning about the application of digital signal processing theory and algorithms to seismic data.


The book provides an in-depth exploration of scientific photography. Highlighting the best practices needed to make, distribute, and preserve scientific visual information using digital photographic methods and technologies, it offers solutions to some of the biggest challenges facing photographers. Written by a team of international, award-winning image makers with over 300 years of cumulative experience, this 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.

Natural Science Imaging and Photography - Michael R. Peres 2021-03-12
This book provides an in-depth exploration of scientific photography. Highlighting the best practices needed to make, distribute, and preserve scientific visual information using digital photographic methods and technologies, it offers solutions to some of the biggest challenges facing photographers. Written by a team of international, award-winning image makers with over 300 years of cumulative experience, this 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.

Remote Sensing Image Fusion - Christine Pohl 2016-10-03
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.

Magnetic Resonance Imaging of Bone and Soft Tissue Tumors and Their Mimics - A.M.A. de Schepper 2012-12-06
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.

Satellite Image Analysis: Clustering and Classification - Surekha Borra 2019-02-08
Thanks to recent advances in sensors, communication and satellite technology, data storage, processing and networking capabilities, satellite image acquisition and mining are now on the rise. In turn, satellite images play a vital role in providing essential geographical information. Highly accurate automatic classification and decision support systems can facilitate the efforts of data analysts, reduce human error, and allow the rapid and rigorous analysis of land use and land cover information. Integrating Machine Learning (ML) technology with the human visual psychometric can help meet geologists’ demands for more efficient and higher-quality classification in real time. This book introduces readers to key concepts, methods and models for satellite image analysis; highlights state-of-the-art classification and clustering techniques; discusses recent developments and remaining challenges; and addresses various applications, making it a valuable asset for engineers, data analysts and researchers in the fields of geographic information systems and remote sensing engineering.