Images

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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 had 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” which 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 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.

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 comprehensible 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 insight into the field and the necessary knowledge for their clinical practice. 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.

From Types to Images - James Hillman 2021-07-19
Moving Jungian psychology from types to images, to an image-based archetypal psychology, is James Hillman’s concern in this volume. This volume leads from Hillman’s principal essay on typology, “Egalitarian Typologies versus the Perception of the Unique,” to his expansive "Inquiry into Image." Hillman instagts an active re-visionsing, re-imagining, of psychology as a self-generative activity of the soul. “An image is given by the imagining perspective and can only be perceived by an act of imagining.”

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 Barron 1995): 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 1998a is known as the Multiscale Optic Flow Constraint 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 1981. 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. 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.

Computer-Generated Images - Nadia Magnenat-Thalmann 2012-01-05
Research, development, and applications in computer graphics have dramatically expanded in recent years. Because of decreasing prices, superior hardware is now being used and image quality is better than ever. Many people now require image-synthesis techniques and software for their applications. Moreover, the techniques of computer animation have become very popular. In this book, we present a wide range of applications of computer graphics. This book is a collection of 44 papers in various areas of computer graphics selected from papers presented at Graphics Interface ’85. Graphics Interface ’85, held from May 27 to 31 in Montreal, was the first truly international computer graphics conference in Canada. This year, for the first time, the conference was presented jointly by the Com puter Graphics Society and the Canadian Man Computer Communications Society. This new arrangement gave the conference international scope. The conference was spon sored by the Department of Communications in Ottawa, the Department of Science and Technology in Quebec, Supply and Services Canada, the Natural Sciences and Engineering Research Council of Canada, Hydro-Quebec, the “Association Canadienne Fran-caise pour l’ Avancement des Sciences”, and the Canadian Broadcasting Corporation. Graphics Interface ’85 was organized by “1’ Ecole des Hautes Etudes Commerciales” of the University of Montreal. Over 100 papers were submitted to the conference, but 64 were selected by the inter national program committee for presentation. This book contains new expanded versions of the papers.

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 Pancreateic 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!

**Performing Image** - Isobel Harbison 2019-04-09
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, we have used a variety of DIY modes of self-publishing 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.

**How to Use Images** - Lester Meachem 2010-05-28
Fundamental to the study of graphic design is the creative use of images in a design context. 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.

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 train programmers who will assemble their own computer systems and write their own programs. Most users require only the barest of knowledge about how to use the computer, but the greater their understanding of the various image analysis operations which are possible, their advantages and limitations, the greater the likelihood of success in their application. Likewise, the book assumes little in the way of a mathematical background, but the researcher with a secure knowledge of appropriate statistical tests will find it easier to put some of these methods into real use, and have confidence in the results, than one who has less background and experience. Supplementary texts and courses in statistics, computer hardware, and specimen preparation are recommended as necessary.

**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 beyond without a single line. 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 critically and see the performativity and get inspired by this book on how to SHOW photography’ - Erik Kessels Discover how to:
- meet with Erwin Wurm...
- sleep with Roman Signer .
- drill images with Vhils .
- build with Andres Serrano .
- be supersized with Cindy Sherman .
- shoot a target with Tim Rollins .
- enter a picture with Martin Parr .
- open a drugstore with Christian Marclay .
- scuba dive with Guido Mocafico .
- play with Shilpa Gupta .
- take an inside out selfie with JR .
- upload pictures with Erik Kessels .
- inflate a whale with Daido Moryama .
- listen to street music with Christian Marclay .
- scuba dive with Guido Mocafico .
- stand on your head with Arnold Oedermatt .
- shoot Crazy music videos with Ok Go .
- write a picture with Martin Parr .
- perform an action 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...

**Images of Whiteness** - Clarissa Behar 2019-01-04
This collection examines images of whiteness in literature, film, television, as well as ethnographic studies, and provides preliminary guidance to engage in anti-racist praxis and education.

**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, vision analysis and processing, pattern analysis and classification, learning, graphs and trees, applications, shape analysis, face analysis, medical imaging, and image analysis and pattern recognition. The book is addressed to researchers, engineers, practitioners, students, and teachers interested in image analysis and processing.

**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-

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date treatment of image processing, offering broad coverage and comparison of algorithms, approaches, and outcomes.

**Introduction to Image Processing** - André Marion 1991-01-01

1. 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 images. But since the Nineteen-Thirties increasing close ties have been forming between Optics, which until then had been largely based on instruments, and the sciences of communication and information 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 telecommunications world, the 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.


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.

**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—it's 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 does 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 historical memory? About to Die focuses on individual, colour images processing is complex and significant than the other 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 also be sub divided, this time into two main areas, which have largely retained distinct identities: (i) Automated Visual Inspection (AVI) (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.
a range of environments and circumstances. Topics covered include: ethical practices, aerial photography, close-up and macro photography, computational photography, field photography, geological photography, imaging with invisible spectrums, photographing small animals in captivity, time-based imaging, and image processing in science. Showcasing modern methods, this book equips readers with the skills needed to capture and process the best image possible. Designed for basic and intermediate photographers, Natural Science Imaging and Photography exists as an essential contemporary handbook.

Images of Nebuchadnezzar - Ronald Herbert Sack 2004
Images of Nebuchadnezzar attempts to probe the diversity of cultural attitudes reflected in the characterizations of this famous king through an examination of both the original cuneiform sources as well as the accounts of chroniclers written in Greek, Roman, and medieval times. Included in this revised and expanded second edition are two new chapters that discuss the life and achievements of Nebuchadnezzar as an administrative ruler and the impact that his death had on both contemporary and later cultures. Both the positive and negative images of the king are explored, with conclusions being developed as to what the authors of the various surviving accounts actually thought the king really was. In the process, the whole nature of historiography in the ancient world is analyzed, and a number of broad conclusions are developed. Anyone who has ever read Second Kings or the books of Daniel and Jeremiah of the Old Testament is familiar with the name of Nebuchadnezzar, the king of Babylon who conquered the kingdom of Judah and destroyed Solomon's temple. As the second member of the Chaldean dynasty of Mesopotamia (626-539 B.C.), he ruled for forty-three years (605-562 B.C.), during which time he also led military campaigns into Syria and Lebanon. He also organized a number of building projects that were to transform Babylon into one of the seven wonders of the ancient world. Among his noteworthy achievements were the construction of massive fortification walls around Babylon, the refurbishing of Marduk's temple in the city, and the building of huge palaces that served as the king's residences. Tales of these legendary achievements, as well as those of his father, Nabopolassar (626-605 B.C.), also found their way into the narratives of a number of Greek, Roman, and medieval historians and chroniclers many centuries later. Unfortunately, much of the record of Nebuchadnezzar's achievements that was written in his own time has not survived. Instead, only secondary accounts of his military campaigns or his construction projects in Babylon written in Greek, Latin, Hebrew, or Arabic are available for analysis. These stories vary greatly in content and emphasis and, in many cases, distort much of what we know from Nebuchadnezzar's own sources. The Hebrews, for example, described Nebuchadnezzar's siege of Jerusalem in such a way as to consider it something that should never again be repeated. The Greeks, on the other hand, saw the building projects in Babylon as evidence of almost superhuman achievements, as monuments that were the result of efforts by a king who was almost godlike. Why, then, is there such diversity in the characterizations of Nebuchadnezzar? This book proposes answers to these questions.

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 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.

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 On Images - Toshihiko Izutsu 1988
Images of Aging - Mike Featherstone 1995
The contributors in this book discuss images of aging which have come to circulate in the advanced industrial societies today. They address such themes as gender images of aging, images of health, illness and death. Recent Trends in Image Processing and Pattern Recognition - K. C. Santosh 2019-07-15
This three-book set constitutes the refereed proceedings of the Second International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIPPR 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.

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) and 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 imaging 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 Program at Ben-Gurion University of the Negev, Israel. He is an elected Fellow of SPIE.

Statistical Image Processing Techniques for Noisy Images - François Goudail 2004
Statistical Processing Techniques for Noisy Images presents a statistical framework to design algorithms for target detection, tracking, segmentation and classification (identification). Its main goal is to provide the reader with efficient tools for developing algorithms that solve his/her own image processing applications. In particular, such topics as hypothesis test-based detection, fast active contour and algorithm design for non-conventional imaging systems are comprehensively treated, from theoretical foundations to practical implementations. With a large number of illustrations and practical examples, this book serves as an excellent textbook or reference book for senior or graduate level courses on statistical signal/image processing, as well as a reference for researchers in related fields.
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, 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.

Candidates and Their Images - Dan D. Nimmo 1976

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.

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.