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Image Super-Resolution and Applications Jun 17 2021 This book is devoted to the issue of image super-resolution—obtaining high-resolution images from single or multiple low-resolution images. Although there are numerous algorithms available for image interpolation and super-resolution, there's been a need for a book that establishes a common thread between the two processes. Filling this need, Image Super-Resolution and Applications presents image interpolation as a building block in the super-resolution reconstruction process. Instead of approaching image interpolation as either a polynomial-based problem or an inverse problem, this book breaks the mold and compares and contrasts the two approaches. It presents two directions for image super-resolution: super-resolution with a priori information and blind super-resolution reconstruction of images. It also devotes chapters to the two complementary steps used to obtain high-resolution images: image registration and image fusion. Details techniques for color image interpolation and interpolation for pattern recognition Analyzes image interpolation as an inverse problem Presents image registration methodologies Considers image fusion and its application in image super resolution Includes simulation experiments along with the required MATLAB® code Supplying complete coverage of image-super resolution and its applications, the book illustrates applications for image interpolation and super-resolution in medical and satellite image processing. It uses MATLAB® programs to present various techniques, including polynomial image interpolation and adaptive polynomial image interpolation. MATLAB codes for most of the simulation experiments supplied in the book are included in the appendix.

Pattern Recognition and Computer Vision Oct 10 2020 The three-volume set LNCS 12305, 12306, and 12307 constitutes the refereed proceedings of the Third Chinese Conference on Pattern Recognition and Computer Vision, PRCV 2020, held virtually in Nanjing, China, in October 2020. The 158 full papers presented were carefully reviewed and selected from 402 submissions. The papers have been organized in the following topical sections: Part I: Computer Vision and Application, Part II: Pattern Recognition and Application, Part III: Machine Learning.

Iterative-Interpolation Super-Resolution Image Reconstruction Sep 01 2022 To my wife, Mitu – Vivek Bannore Preface Preface In many imaging systems, under-sampling and aliasing occurs frequently leading to degradation of image quality. Due to the limited number of sensors available on the digital cameras, the quality of images captured is also limited. Factors such as optical or atmospheric blur and sensor noise can also contribute further to the d- radation of image quality. Super-Resolution is an image reconstruction technique that enhances a sequence of low-resolution images or video frames by increasing the spatial resolution of the images. Each of these low-resolution images contain only incomplete scene information and are geometrically warped, aliased, and – der-sampled. Super-resolution technique intelligently fuses the incomplete scene information from several consecutive low-resolution frames to reconstruct a hi-resolution representation of the original scene. In the last decade, with the advent of new technologies in both civil and mi- tary domain, more computer vision applications are being developed with a demand for high-quality high-resolution images. In fact, the demand for high- resolution images is exponentially increasing and the camera manufacturing te- nology is unable to cope up due to cost efficiency and other practical reasons.

MultiMedia Modeling Mar 15 2021 The two-volume set LNCS 8935 and 8936 constitutes the thoroughly refereed proceedings of the 21st International Conference on Multimedia Modeling, MMM 2015, held in Sydney, Australia, in January 2015. The 49 revised regular papers, 24 poster presentations, were carefully reviewed and selected from 189 submissions. For the three special session, a total of 18 papers were accepted for MMM 2015. The three special sessions are Personal (Big) Data Modeling for Information Access and Retrieval, Social Geo-Media Analytics and Retrieval and Image or video processing, semantic analysis and understanding. In addition, 9 demonstrations and 9 video showcase papers were accepted for MMM 2015. The accepted contributions included in these two volumes represent the state-of-the-art in multimedia modeling research and cover a diverse range of topics including: Image and Video Processing, Multimedia encoding and streaming, applications of multimedia modelling and 3D and augmented reality.

RGB-D Image Analysis and Processing Mar 03 2020 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.

Multimodal Technologies for Perception of Humans Jun 29 2022 This book constitutes the thoroughly refereed post-proceedings of the First International CLEAR 2006 Evaluation Campaign and Workshop on Classification of Events,

Activities and Relationships for evaluation of multimodal technologies for the perception of humans, their activities and interactions. The workshop was held in the UK in April 2006. The papers were carefully reviewed and selected for inclusion in the book.

Computer Vision – ECCV 2020 Workshops Jul 07 2020 The 6-volume set, comprising the LNCS books 12535 until 12540, constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th European Conference on Computer Vision, ECCV 2020. The conference was planned to take place in Glasgow, UK, during August 23-28, 2020, but changed to a virtual format due to the COVID-19 pandemic. The 249 full papers, 18 short papers, and 21 further contributions included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions. The papers deal with diverse computer vision topics. Part III includes the Advances in Image Manipulation Workshop and Challenges.

Super Resolution of Images and Video Jun 25 2019 This book focuses on the super resolution of images and video. The authors' use of the term super resolution (SR) is used to describe the process of obtaining a high resolution (HR) image, or a sequence of HR images, from a set of low resolution (LR) observations. This process has also been referred to in the literature as resolution enhancement (RE). SR has been applied primarily to spatial and temporal RE, but also to hyperspectral image enhancement. This book concentrates on motion based spatial RE, although the authors also describe motion free and hyperspectral image SR problems. Also examined is the very recent research area of SR for compression, which consists of the intentional downsampling, during pre-processing, of a video sequence to be compressed and the application of SR techniques, during post-processing, on the compressed sequence. It is clear that there is a strong interplay between the tools and techniques developed for SR and a number of other inverse problems encountered in signal processing (e.g., image restoration, motion estimation). SR techniques are being applied to a variety of fields, such as obtaining improved still images from video sequences (video printing), high definition television, high performance color Liquid Crystal Display (LCD) screens, improvement of the quality of color images taken by one CCD, video surveillance, remote sensing, and medical imaging. The authors believe that the SR/RE area has matured enough to develop a body of knowledge that can now start to provide useful and practical solutions to challenging real problems and that SR techniques can be an integral part of an image and video codec and can drive the development of new coder-decoders (codecs) and standards.

Mesh Processing in Medical Image Analysis 2012 Aug 27 2019 This book constitutes the refereed proceedings of the International Workshop on Mesh Processing in Medical Image Analysis, MeshMed 2012, held in Nice, France, in October 2012 in conjunction with MICCAI 2012, the 15th International Conference on Medical Image Computing and Computer Assisted Intervention. The book includes 16 submissions, 8 were selected for presentation along with the 3 plenary talks representative of the meshing, and 8 were selected for poster presentations. The papers cover a broad range of topics, including statistical shape analysis and atlas construction, novel meshing approaches, soft tissue simulation, quad dominant meshing and mesh based shape descriptors. The described techniques were applied to a variety of medical data including cortical bones, ear canals, cerebral aneurysms and vascular structures.

Medical Image Computing and Computer-Assisted Intervention – MICCAI'99 Jan 31 2020 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.

IPhoto '08 Jan 13 2021 Apple has taken iPhoto 08 to a whole new level. Now, in addition to handling upwards of 250,000 images, the program lets you easily categorize and navigate through those photos with a feature called Events. Plus, new editing tools let you copy and paste adjustments between photos. Books and calendars have been improved, too, as has the program's ability to publish pictures on the Web. Apple makes it all sound easy: drag this, click that, and you're done. But you can still get lost, especially if you're a newcomer. iPhoto '08: The Missing Manual explains how to take advantage of all these powerful tools and new features without confusion or frustration. Bestselling authors David Pogue and Derrick Story give you a witty, objective, and clear-cut explanation of how things work, with plenty of undocumented tips and tricks for mastering the new iPhoto. Four sections help you import, organize, edit, share, and even take your photos: Digital Photography: The Missing Manual offers a course in picture-taking and digital cameras -- how to buy and use your digital camera, how to compose brilliant photos in various situations (sports, portraits, nighttime shots, even kid photography), and how to get the most out of batteries and memory cards. iPhoto Basics covers the fundamentals of getting your photos into iPhoto, organizing and filing them, searching and editing them. Meet Your Public teaches you all about slideshows, making or ordering prints, creating books, calendars and greeting cards, and sharing photos on web sites or by email. iPhoto Stunts explains how to turn photos into screen savers or desktop pictures, using plug-ins, managing Photo Libraries, and even getting photos to and from camera phones and Palm organizers. You also learn how to build a personal web site built with iWeb, and much more in this comprehensive guide. It's the top-selling iPhoto book for good reason.

Miscellaneous Publication Aug 08 2020

50 Things Photographers Need to Know About Focus Nov 22 2021 While focusing your camera seems like it should be a no-brainer—there's autofocus, after all!—it's often not a simple task. Depending on the shooting situation, your camera, and the countless scenarios that can "throw off" the focus, the task of achieving sharp images with great focus can be deceptively challenging. If you're a passionate photographer eager to learn the best ways to achieve tack-sharp focus in your images, these 50 focus-based principles are exactly what you need to take your work to the next level. With photographer and author John Greengo as your guide, you'll quickly learn nearly four dozen techniques for achieving focus in every shooting situation. You'll learn: • How to optimize autofocus no matter what kind of camera you have (DSLR or mirrorless) • How to master manual focus • Which focus modes and focus areas work best for different situations • How to use your camera's autofocus aids, such as magnification and focus peaking • Techniques to keep your camera stable, either handheld or on a tripod • How shutter speed and aperture affect sharpness Written in the author's friendly and approachable style, and illustrated with examples that clearly show how each technique can help you capture great photos, 50 Things Photographers Need to Know About Focus is designed to be an effective, fast, and fun way to learn how to achieve great focus in your images—no matter what situation. TABLE OF CONTENTS Chapter 1: Focus Basics Chapter 2: Autofocus Chapter 3: Mirrorless Autofocus Chapter 4: DSLR Autofocus Chapter 5: Customized Autofocus Controls Chapter 6: Autofocus Aids Chapter 7: Autofocus and Lenses Chapter 8: Manual Focus and Lenses Chapter 9: Exposure Control for Focus Chapter 10: Advanced Focusing Techniques Chapter 11: Other Focus Topics

Advanced Environmental Monitoring with Remote Sensing Time Series Data and R Oct 29 2019 This book provides a step-by-step guide on how to use various publicly available remotely sensed time series data sources for environmental monitoring and assessment. Readers will learn how to extract valuable information on global changes from a 20-year collection of ready-to-use remotely sensed data through the free open statistical software R and its geographic data analysis and modeling tools. The case studies are from the Mediterranean region—a designated hot spot regarding climate

change effects. Each chapter is dedicated to specific remote sensing products chosen for their spatial resolution. The methods used are adapted from large-scale to smaller-scale problems for different land cover areas. Features Includes real-world applications of environmental remotely sensed data Analyzes the advantages and restrictions of each data source Focuses on a wide spectrum of applications, such as hydrology, vegetation changes, land surface temperature, fire detection, and impacts Includes R computer codes with explanatory comments and all applications use only freely available remotely sensed data Presents a step-by-step processing through open source GIS and statistical analysis software Advanced Environmental Monitoring with Remote Sensing Time Series Data and R describes and provides details on recent advances concerning publicly available remotely sensed time series data in environmental monitoring and assessment. This book is a must-have practical guide for environmental researchers, professionals, and students.

Wavelet Methods in Mathematical Analysis and Engineering Apr 15 2021

Nanoelectronics, Circuits and Communication Systems Jul 27 2019 This book features selected papers presented at the Fourth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2018). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communications, instrumentation, signal processing, the Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it offers a valuable resource for young scholars, researchers, and academics alike.

ICT for Competitive Strategies Jan 25 2022 Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state-of-the-art as well as emerging topics pertaining to information and communication technologies (ICTs) and effective strategies for its implementation for engineering and intelligent applications.

Low-resolution Infrared and High-resolution Visible Image Fusion Based on U-net Feb 23 2022 With current sensor technology, visible wavelength (VIS) images can be acquired at very high resolutions (HR) compared to the infrared (IR) images. Therefore, image fusion techniques aim to augment IR images with the superior spatial resolution of VIS images to overcome the resolution problems in IR imaging. This thesis introduces two ways to integrate IR and VIS images, IR image super-resolution and IR and VIS image fusion. The first application is super-resolution (SR) for IR images. We propose an IR image SR algorithm based on U-Net. By fusing the HR image features of the VIS images, the network can produce an IR SR image successfully and efficiently. Secondly, we also propose a novel framework for combining VIS and IR images, guided by feature extraction techniques such as VGG16. By designing the algorithm to preserve the meaningful VGG16 features from both IR and VIS images, the proposed method achieves excellent performance in the qualitative and quantitative aspects. In addition, we propose joint super-resolution and image fusion between IR and VIS images. Finally, we developed a new HR VIS and LR IR image pair dataset. Since this data collection closely resembles the real-world sensing scenarios, it is a valuable resource for continued exploration of this image processing field.

Image Analysis and Processing -- ICIAP 2009 Dec 12 2020 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.

Computer Vision – ECCV 2020 May 05 2020 The 30-volume set, comprising the LNCS books 12346 until 12375, constitutes the refereed proceedings of the 16th European Conference on Computer Vision, ECCV 2020, which was planned to be held in Glasgow, UK, during August 23-28, 2020. The conference was held virtually due to the COVID-19 pandemic. The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.

The Friendly Orange Glow Oct 22 2021 At a time when Steve Jobs was only a teenager and Mark Zuckerberg wasn't even born, a group of visionary engineers and designers—some of them only high school students—in the late 1960s and 1970s created a computer system called PLATO, which was light-years ahead in experimenting with how people would learn, engage, communicate, and play through connected computers. Not only did PLATO engineers make significant hardware breakthroughs with plasma displays and touch screens but PLATO programmers also came up with a long list of software innovations: chat rooms, instant messaging, message boards, screen savers, multiplayer games, online newspapers, interactive fiction, and emoticons. Together, the PLATO community pioneered what we now collectively engage in as cyberculture. They were among the first to identify and also realize the potential and scope of the social interconnectivity of computers, well before the creation of the internet. PLATO was the foundational model for every online community that was to follow in its footsteps. The Friendly Orange Glow is the first history to recount in fascinating detail the remarkable accomplishments and inspiring personal stories of the PLATO community. The addictive nature of PLATO both ruined many a college career and launched pathbreaking multimillion-dollar software products. Its development, impact, and eventual disappearance provides an instructive case study of technological innovation and disruption, project management, and missed opportunities. Above all, The Friendly Orange Glow at last reveals new perspectives on the origins of social computing and our internet-infatuated world.

Advances in Information and Communication Jun 05 2020 This book presents high-quality research on the concepts and developments in the field of information and communication technologies, and their applications. It features 134 rigorously selected papers (including 10 poster papers) from the Future of Information and Communication Conference 2020 (FICC 2020), held in San Francisco, USA, from March 5 to 6, 2020, addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of future research Discussing various aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of Things, the book offers researchers, scientists, industrial engineers and students valuable insights into the current research and next generation information science and communication technologies.

Super-Resolution Imaging Nov 30 2019 Super-Resolution Imaging serves as an essential reference for both academicians and practicing engineers. It can be used both as a text for advanced courses in imaging and as a desk reference for those working in multimedia, electrical engineering, computer science, and mathematics. The first book to cover the new research area of super-resolution imaging, this text includes work on the following groundbreaking topics: Image zooming based on wavelets and generalized interpolation; Super-resolution from sub-pixel shifts; Use of blur as a cue; Use of warping in super-resolution; Resolution enhancement using multiple apertures; Super-resolution from motion data; Super-resolution from compressed video; Limits in super-resolution imaging. Written by the leading experts in the field, Super-Resolution Imaging presents a comprehensive analysis of current technology, along with new research findings and

directions for future work.

Analysis of Low Resolution Range Image Sequences Sep 20 2021

Motion-Free Super-Resolution Mar 27 2022 Motion-Free Super-Resolution is a compilation of very recent work on various methods of generating super-resolution (SR) images from a set of low-resolution images. The current literature on this topic deals primarily with the use of motion cues for the purpose of generating SR images. These cues have, it is shown, their advantages and disadvantages. In contrast, this book shows that cues other than motion can also be used for the same purpose, and addresses both the merits and demerits of these new techniques. Motion-Free Super-Resolution supersedes much of the lead author's previous edited volume, "Super-Resolution Imaging," and includes an up-to-date account of the latest research efforts in this fast-moving field. This sequel also features a style of presentation closer to that of a textbook, with an emphasis on teaching and explanation rather than scholarly presentation.

Digital SLR Cameras and Photography For Dummies Feb 11 2021 The perennial digital photography bestseller, now updated to cover the hottest topics Digital SLR Cameras & Photography For Dummies has been a bestseller since it first came into the picture, and this new edition gets you up to (shutter) speed on the latest technologies available. Veteran author David Busch walks you through new camera models from the leading manufacturers, WiFi and GPS options, full HD moviemaking, and the latest dSLR features. He also provides you with a solid foundation of knowledge about exposure, composition, and lighting that any new dSLR user needs to know to get great results from the camera. The straightforward-but-friendly coverage offers tips for choosing a camera and accessories, using different controls, maximizing lighting and exposure, and editing your photos. With this helpful book by your side, you'll learn your way around shutter speed, aperture, and ISO so that you can get a handle on the big picture while you take pictures! Introduces you to all the features common to dSLR cameras, whether it's Canon, Nikon, Sony, Pentax, Olympus, or another digital SLR camera Shares tips on composition, lighting and exposure controls, and file formats Shows you how to get photos from your camera to a computer and then how to manage, edit, and share your pics Offers hints on improving your skills, online resources, and the jargon of the pros If you're ready to get in the dSLR picture, then this is the book you need.

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications Sep 08 2020 Pattern recognition is a central topic in contemporary computer sciences, with continuously evolving topics, challenges, and methods, including machine learning, content-based image retrieval, and model- and knowledge-based - proaches, just to name a few. The Iberoamerican Congress on Pattern Recog- tion (CIARP) has become established as a high-quality conference, highlighting the recent evolution of the domain. These proceedings include all papers presented during the 15th edition of this conference, held in Sao Paulo, Brazil, in November 2010. As was the case for previous conferences, CIARP 2010 attracted parti- pants from around the world with the aim of promoting and disseminating - going research on mathematical methods and computing techniques for pattern recognition, computer vision, image analysis, and speech recognition, as well as their applications in such diverse areas as robotics, health, entertainment, space exploration, telecommunications, data mining, document analysis, and natural language processing and recognition, to name only a few of them. Moreover, it provided a forum for scienti?c research, experience exchange, sharing new kno- edge and increasing cooperation between research groups in pattern recognition and related areas. It is important to underline that these conferences have contributed sign- icantly to the growth of national associations for pattern recognition in the Iberoamerican region, all of them as members of the International Association for Pattern Recognition (IAPR).

Image Mosaicing and Super-resolution Dec 24 2021 This book investigates sets of images consisting of many overlapping viewsofa scene, and how the information contained within them may be combined to produce single images of superior quality. The generic name for such techniques is frame fusion. Using frame fusion, it is possible to extend the fieldof view beyond that ofany single image, to reduce noise, to restore high-frequency content, and even to increase spatial resolution and dynamic range. The aim in this book is to develop efficient, robust and automated frame fusion algorithms which may be applied to real image sequences. An essential step required to enable frame fusion is image registration: computing the point-to-point mapping between images in their overlapping region. This sub problem is considered in detail, and a robust and efficient solution is proposed and its accuracy evaluated. Two forms of frame fusion are then considered: image mosaic ing and super-resolution. Image mosaicing is the alignment of multiple images into a large composition which represents part of a 3D scene. Super-resolution is a more sophisticated technique which aims to restore poor-quality video sequences by mod elling and removing the degradations inherent in the imaging process, such as noise, blur and spatial-sampling. A key element in this book is the assumption of a completely uncalibrated cam era. No prior knowledge of the camera parameters, its motion, optics or photometric characteristics is assumed. The power of the methods is illustrated with many real image sequence examples.

Photoshop CC May 29 2022 This bestselling guide from authors Elaine Weinmann and Peter Lourekas has been the go-to tutorial and reference book for photography/design professionals and the textbook of choice in college classrooms for decades. This edition includes their trademark features of clear, concise, step-by-step instructions; hundreds of full-color images; screen captures of program features; and supplemental tips and sidebars in every chapter. New and updated Photoshop CC features are clearly marked with bright red stars in both the table of contents and main text.

Neural Information Processing Sep 28 2019 The two-volume set CCIS 1516 and 1517 constitutes thoroughly refereed short papers presented at the 28th International Conference on Neural Information Processing, ICONIP 2021, held in Sanur, Bali, Indonesia, in December 2021.* The volume also presents papers from the workshop on Artificial Intelligence and Cyber Security, held during the ICONIP 2021. The 176 short and workshop papers presented in this volume were carefully reviewed and selected for publication out of 1093 submissions. The papers are organized in topical sections as follows: theory and algorithms; AI and cybersecurity; cognitive neurosciences; human centred computing; advances in deep and shallow machine learning algorithms for biomedical data and imaging; reliable, robust, and secure machine learning algorithms; theory and applications of natural computing paradigms; applications. * The conference was held virtually due to the COVID-19 pandemic.

Super Resolution Jul 31 2022 Although imaging sensors are the dominant technologies for both user and industry applications, they still have several physical limitations, such as noise and limited spatial resolution. These limitations can be overcome, based on device electronics and physics technology. However, a promising solution is a signal processing approach that has been one of the most active research areas, and it is called Super Resolution (SR). This work proposes SR algorithm that uses an affine block-based with the Maximum Likelihood. A number of experiments were performed with the proposed system to obtain reconstructed High Resolution (HR) images of different resolutions from the same set of Low Resolution (LR) images. Also, a number of experiments were performed to evaluate its behavior as a function of the number of available LR images. The algorithm improves the accuracy of translational registration and accurately recovers HR image even in the case where just very a few input images are provided. This work should be especially useful to professionals in Image Processing, Signal Processing, and Electronics fields, or anyone else who may be considering utilizing Resolution Enhancement.

Super Resolution of Images and Video Oct 02 2022 This book focuses on the super resolution of images and video. The authors' use of the term super resolution (SR) is used to describe the process of obtaining a high resolution (HR) image, or a sequence of HR images, from a set of low resolution (LR) observations. This process has also been referred

to in the literature as resolution enhancement (RE). SR has been applied primarily to spatial and temporal RE, but also to hyperspectral image enhancement. This book concentrates on motion based spatial RE, although the authors also describe motion free and hyperspectral image SR problems. Also examined is the very recent research area of SR for compression, which consists of the intentional downsampling, during pre-processing, of a video sequence to be compressed and the application of SR techniques, during post-processing, on the compressed sequence. It is clear that there is a strong interplay between the tools and techniques developed for SR and a number of other inverse problems encountered in signal processing (e.g., image restoration, motion estimation). SR techniques are being applied to a variety of fields, such as obtaining improved still images from video sequences (video printing), high definition television, high performance color Liquid Crystal Display (LCD) screens, improvement of the quality of color images taken by one CCD, video surveillance, remote sensing, and medical imaging. The authors believe that the SR/RE area has matured enough to develop a body of knowledge that can now start to provide useful and practical solutions to challenging real problems and that SR techniques can be an integral part of an image and video codec and can drive the development of new coder-decoders (codecs) and standards.

Designing a Digital Portfolio Jan 01 2020 Portfolios have always been artists' most valuable tools for communicating their talents to the outside world, whether to potential employers or galleries or clients. But the days of sketches and slides have given way to arrangements of digital assets that are both simpler and more complex than their traditional analog counterparts. Instructor and design professional Cynthia Baron covers all the facets that artists need to know, from choosing the best work for a particular audience to using various file formats to organizing, designing, and presenting the portfolio. Beautiful full-color illustrations demonstrate her instructions, and case studies throughout portray examples of attractive and effective portfolio design. This book gives artists at any level a creative edge, ensuring that their portfolios get noticed and help them stand out from the crowd.

Computer Vision – ACCV 2012 Workshops Apr 27 2022 The two volume set, consisting of LNCS 7728 and 7729, contains the carefully reviewed and selected papers presented at the nine workshops that were held in conjunction with the 11th Asian Conference on Computer Vision, ACCV 2012, in Daejeon, South Korea, in November 2012. From a total of 310 papers submitted, 78 were selected for presentation. LNCS 7728 contains the papers selected for the International Workshop on Computer Vision with Local Binary Pattern Variants, the Workshop on Computational Photography and Low-Level Vision, the Workshop on Developer-Centered Computer Vision, and the Workshop on Background Models Challenge. LNCS 7729 contains the papers selected for the Workshop on e-Heritage, the Workshop on Color Depth Fusion in Computer Vision, the Workshop on Face Analysis, the Workshop on Detection and Tracking in Challenging Environments, and the International Workshop on Intelligent Mobile Vision.

The Wildlife Techniques Manual Apr 03 2020 A standard text in a variety of courses, the Techniques Manual, as it is commonly called, covers every aspect of modern wildlife management and provides practical information for applying the hundreds of methods described in its pages. To effectively incorporate the explosion of new information in the wildlife profession, this latest edition is logically organized into a two-volume set: Volume 1 is devoted to research techniques and Volume 2 focuses on management methodologies.

IMovie 3 for Mac OS X Aug 20 2021 Discusses how to select and use a digital camcorder, how to ensure quality composition and coverage, how to adjust lighting and audio, how to edit images and audio, and how to display movies.

Adobe Photoshop CS3 Nov 10 2020 1. Import multiple digital originals, create silhouettes, and use layers to build composite images such as a full-color magazine ad. 2. Combine images; apply various filters, adjustments, and patterns; and manipulate masks and channels to create artistic effects for a series of art-quality posters. 3. Produce special text-based effects with layers, masking, and selection techniques to design an appealing book cover. 4. Retouch photos to correct physical damage, lighting problems, and color errors using dozens of special filters to control every aspect of an image. 5. Create and composite complex selections and work with spot channels to build an attractive catalog cover. 6. Transform original photos to remove background elements, warp images to provide three-dimensional perspective, and apply sophisticated lighting effects to unify composite images for advertisements. 7. Render life-like paintings from line-art originals using Photoshop's remarkable combination of brushes, transparencies, and blending modes. 8. Generate and publish an industry-compliant web page that incorporates interactive buttons, animated images, and sliced artwork ready to be used by site-development technicians. 9. Work efficiently and rapidly by customizing your workspace, using shortcuts where appropriate, and automating repetitive tasks when possible.

Multi-Modality Atherosclerosis Imaging and Diagnosis Jul 19 2021 Stroke is one of the leading causes of death in the world, resulting mostly from the sudden ruptures of atherosclerosis carotid plaques. Understanding why and how plaque develops and ruptures requires a multi-disciplinary approach such as radiology, biomedical engineering, medical physics, software engineering, hardware engineering, pathological and histological imaging. Multi-Modality Atherosclerosis Imaging, Diagnosis and Treatment presents a new dimension of understanding Atherosclerosis in 2D and 3D. This book presents work on plaque stress analysis in order to provide a general framework of computational modeling with atherosclerosis plaques. New algorithms based on 3D and 4D Ultrasound are presented to assess the atherosclerotic disease as well as very recent advances in plaque multimodality image fusion analysis. The goal of Multi-Modality Atherosclerosis Imaging, Diagnosis and Treatment is to fuse information obtained from different 3D medical image modalities, such as 3D US, CT and MRI, providing the medical doctor with some sort of augmented reality information about the atherosclerotic plaque in order to improve the accuracy of the diagnosis. Analysis of the plaque dynamics along the cardiac cycle is also a valuable indicator for plaque instability assessment and therefore for risk stratification. 4D Ultrasound, a sequence of 3D reconstructions of the region of interest along the time, can be used for this dynamic analysis. Multimodality Image Fusion is a very appealing approach because it puts together the best characteristics of each modality, such as, the high temporal resolution of US and the high spatial resolutions of MRI and CT.

Recent Advances in Image and Video Coding May 17 2021 This book is intended to attract the attention of practitioners and researchers in academia and industry interested in challenging paradigms of image and video coding algorithms with an emphasis on recent technological developments. All the chapters are well demonstrated by various researchers around the world covering the field of image and video processing. This book highlights the current research in the image and video processing area such as image fusion, image segmentation and classification, image compression, machine vision algorithms and video compression. The entire work available in the book is mainly focusing on researchers who can do quality research in the area of image and video processing and related fields. Each chapter is an independent research which will definitely motivate the young researchers to ponder into. These eleven chapters available in five sections will be an eye-opener for all who are doing systematic research in these fields.

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