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DAISY MOODY

Motion Deblurring Elsevier Health Sciences

The Astrophotography Manual is for those photographers who aspire to move beyond using standard SLR cameras and editing software, and who are ready to create beautiful images of nebulas, galaxies, clusters, and the solar system. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment through image capture, calibration, and processing. This combination of technical background information and the hands-on approach brings the science down to earth with a practical method to plan for success. Features include: Over 400 images, graphs, and tables to illustrate these concepts A wide range of hardware to be used, including smartphones, tablets, and the latest mount technologies How to utilize a variety of leading software such as Maxim DL, Nebulosity, Sequence Generator Pro, Photoshop, and PixInsight

Case studies showing how and when to use certain tools and overcoming technical challenges How sensor performance and light pollution relate to image quality and exposure planning *Popular Photography* Oxford University Press, USA

Discover the path to the big leagues It's time to prove all those people who said "video games are a waste of time" wrong. Esports has rewarded top gamers with prize money, glory, and even college scholarships. Want to get in on the action? This book puts you on the path to get your share of the growing world of esports. It helps you figure out the gear you need to be competitive, the games that drive esports, how to break into competitive play, and how to use online platforms to get attention. Written by the esports program director at the first Division I university to field an esports team, this book defines and demystifies the complex world of competitive video gaming. Get the gear for your first esports battles Gain recognition for your skills online or in tournaments Discover the path to

earning scholarships in esports Build your online identity Get the insider tips you need to make your name in the esports universe.

Computer Education for Teachers

Cambridge University Press

Image Restoration: Fundamentals and Advances responds to the need to update most existing references on the subject, many of which were published decades ago. Providing a broad overview of image restoration, this book explores breakthroughs in related algorithm development and their role in supporting real-world applications associated with various scientific and engineering fields. These include astronomical imaging, photo editing, and medical imaging, to name just a few. The book examines how such advances can also lead to novel insights into the fundamental properties of image sources. Addressing the many advances in imaging, computing, and communications technologies, this reference strikes just the right balance of coverage between core fundamental principles and the latest developments in this area. Its content was designed based on the idea that the reproducibility of published works on algorithms makes it easier for researchers to build on each other's work, which often benefits the vitality of the technical community as a whole. For that reason, this book is as experimentally reproducible as possible. Topics covered include: Image denoising and deblurring Different image restoration methods and recent advances such as nonlocality and sparsity Blind restoration under space-varying blur Super-resolution restoration Learning-based methods Multi-spectral and color image restoration New possibilities using hybrid imaging systems Many existing references are

scattered throughout the literature, and there is a significant gap between the cutting edge in image restoration and what we can learn from standard image processing textbooks. To fill that need but avoid a rehash of the many fine existing books on this subject, this reference focuses on algorithms rather than theories or applications. Giving readers access to a large amount of downloadable source code, the book illustrates fundamental techniques, key ideas developed over the years, and the state of the art in image restoration. It is a valuable resource for readers at all levels of understanding.

Methods of Dendrochronology Plural Publishing

"An important addition to your library." -
--American Scientist

Urological Surgery CRC Press

Through an experimental interpretation of digital art, Sage Elwell offers a critical reflection on how digital technology is changing us and the world we live in at a level of religious significance. Employing a theological aesthetic of digital art, this book seeks to understand how the advent of digital technology as a revolutionary cultural medium is transforming the ways we think about God, the soul, and morality.

Stroboscopy Hammerhead Press

Producing and Directing the Short Film and Video is the definitive book on the subject for beginning filmmakers and students. The book clearly illustrates all of the steps involved in preproduction, production, postproduction, and distribution. Its unique two-fold approach looks at filmmaking from the perspectives of both producer and director, and explains how their separate energies must combine to create a successful short film or video, from script to final product. This guide offers

extensive examples from award-winning shorts and includes insightful quotes from the filmmakers themselves describing the problems they encountered and how they solved them. The companion website contains useful forms and information on grants and financing sources, distributors, film and video festivals, film schools, internet sources for short works, and professional associations.

Practical Pathology Informatics

Springer Science & Business Media
Optical Metrology for Fluids, Combustion and Solids is the first practical handbook that presents the assemblage of the techniques necessary to provide a basic understanding of optical measurement for fluids, combustion, and solids. The use of light as a measurement tool has grown over the past twenty years from a narrowly specialized activity to a mainstay of modern research today. Until recently, the knowledge that could be extracted from the light interaction of light with physical objects was limited to specialized activities. The invention of the laser, the computer and microelectronics has enabled a measurement revolution such that virtually every parameter of engineering interest can be measured using the minimally intrusive properties of light. The authors of this book's chapters are leaders in this revolution. They work on the front lines of research in government, industry, and universities, inventing yet more ways to harness the power of light for the generation of knowledge.

The Astrophotography Manual Springer Science & Business Media

Humans are the best functioning example of multimedia communication and computing - that is, we understand information and experiences through the

unified perspective offered by our five senses. This innovative textbook presents emerging techniques in multimedia computing from an experiential perspective in which each medium - audio, images, text, and so on - is a strong component of the complete, integrated exchange of information or experience. The authors' goal is to present current techniques in computing and communication that will lead to the development of a unified and holistic approach to computing using heterogeneous data sources. Gerald Friedland and Ramesh Jain introduce the fundamentals of multimedia computing, describing the properties of perceptually encoded information, presenting common algorithms and concepts for handling it, and outlining the typical requirements for emerging applications that use multifarious information sources. Designed for advanced undergraduate and beginning graduate courses, the book will also serve as an introduction for engineers and researchers interested in understanding the elements of multimedia and their role in building specific applications.

Digital Video Surveillance and Security John Wiley & Sons

Endoscopic Techniques in Plastic and Aesthetic Surgery comprehensively addresses both the aesthetic and reconstructive aspects of endoscopic surgery as applied to plastic surgery. The editors, renowned pioneers of these techniques, have assembled a group of distinguished contributors to present, step-by-step, the operative strategies for incorporation of endoscopic procedures to the armamentarium of the practicing plastic surgeon. The procedures are precisely and exquisitely rendered by 721 illustrations, including over 300 full color endoscopic views and operative

photographs. This book is the essential, definitive source for mastery of these state-of-the-art techniques.

Producing and Directing the Short Film and Video Que Publishing

Digital cameras are probably one of the most common electronics found in typical American households. The use of digital cameras has allowed anyone to become a photographer without the expensive equipment that was previously needed. This volume describes the evolution of the digital cameras, along with the parts that make up the camera. The book also deals with what modes should be used in certain settings, and how the explosion of photographs available online has led to privacy concerns.

An Introduction to Digital Multimedia IGI Global

Gain the knowledge and skills you need to provide safe, effective perioperative nursing care! Alexander's Care of the Patient in Surgery, 17th Edition is the definitive resource for nurses and surgical technologists training for a career in the operating room. Illustrated, step-by-step instructions cover patient care in more than 400 surgical interventions, including patient positioning, instrumentation, and postoperative care. Along with the latest on robotic surgery and a review of evidence-based guidelines, this edition includes new coverage of COVID-19 and gender affirmation surgery. From well-known educator Jane C. Rothrock — and with every chapter authored by an expert nurse — Alexander's gives you the tools you need to pass the CNOR® certification exam and succeed in the surgical setting.

Digital Cameras and Camcorders SAE International

COMPUTER EDUCATION FOR TEACHERS

In today's world, technology is changing quickly—and so are the ways teachers use that technology. From serving as a library resource to helping students with special needs, computer technology continues to be one of the most powerful tools in a teacher's arsenal. In this new edition of *Computer Education for Teachers*, Vicki Sharp introduces teachers to computer technology in a meaningful, practical way. She helps readers gain the knowledge and skills necessary to integrate computers into the classroom in ways that will best serve both the teacher and the student. In this Sixth Edition you will find: Online tutorials demonstrating projects such as creating a newsletter and producing a podcast A new Digital Photography chapter and an expanded section on using a video camera Coverage of the latest innovations, including podcasts, social networking sites, blogs, wikis, open journaling, course management systems, virtual reality communities, personal response systems and more Online project templates and examples Numerous evaluations and checklists in PDF format for easy downloading, interactive self-study tests, and PowerPoint™ presentations Software reviews, an online hardware reference guide, and practical classroom activities

Popular Photography Springer Science & Business Media

Computer Graphics & Graphics Applications

Popular Photography Cambridge University Press

The last ten years have seen explosive growth in the technology available to the collision analyst, changing the way reconstruction is practiced in fundamental ways. The greatest technological advances for the crash reconstruction community have come in

the realms of photogrammetry and digital media analysis. The widespread use of scanning technology has facilitated the implementation of powerful new tools to digitize forensic data, create 3D models and visualize and analyze crash vehicles and environments. The introduction of unmanned aerial systems and standardization of crash data recorders to the crash reconstruction community have enhanced the ability of a crash analyst to visualize and model the components of a crash reconstruction. Because of the technological changes occurring in the industry, many SAE papers have been written to address the validation and use of new tools for collision reconstruction. Collision Reconstruction Methodologies Volumes 1-12 bring together seminal SAE technical papers surrounding advancements in the crash reconstruction field. Topics featured in the series include: • Night Vision Study and Photogrammetry • Vehicle Event Data Recorders • Motorcycle, Heavy Vehicle, Bicycle and Pedestrian Accident Reconstruction The goal is to provide the latest technologies and methodologies being introduced into collision reconstruction - appealing to crash analysts, consultants and safety engineers alike.

Video Surveillance Techniques and Technologies CRC Press

A comprehensive guide to restoring images degraded by motion blur, bridging the traditional approaches and emerging computational photography-based techniques, and bringing together a wide range of methods emerging from basic theory as well as cutting-edge research. It encompasses both algorithms and architectures, providing detailed coverage of practical techniques

by leading researchers. From an algorithms perspective, blind and non-blind approaches are discussed, including the use of single or multiple images; projective motion blur model; image priors and parametric models; high dynamic range imaging in the irradiance domain; and image recognition in blur. Performance limits for motion deblurring cameras are also presented. From a systems perspective, hybrid frameworks combining low-resolution-high-speed and high-resolution-low-speed cameras are described, along with the use of inertial sensors and coded exposure cameras. Also covered is an architecture exploiting compressive sensing for video recovery. A valuable resource for researchers and practitioners in computer vision, image processing, and related fields.

Photogrammetry CRC Press

As imaging studies have continued to expand in scope and sophistication, this new edition of the highly successful and well-received *Imaging Neurons: A Laboratory Manual* has expanded to include development, with over twenty new chapters on such topics as MRI microscopy, imaging early developmental events, and labeling single neurons. Chapters on FRET, FCS/ICS, FRAP, hyperresolution microscopy, single molecule imaging, imaging with quantum dots, and imaging gene expression are included. With over forty full chapters, the manual also includes over forty sections of protocols for imaging techniques.

Crisis of Transcendence Butterworth-Heinemann

This book is a review and description of the state-of-the-art methods of tree-ring analysis with specific emphasis on applications in the environmental

sciences. Traditionally, methods of tree-ring analysis, or more properly in this case methods of dendrochronology, were developed and used for dating archaeological and historical structures and for reconstructing past climates. The classic book *Tree Rings and Climate*, by H.C. Fritts, published in 1976, provided a superb introduction to the science and an in-depth description of techniques useful for extracting climatic information from tree rings. This book, which was published by Academic Press, is sadly out of print and, even though only 12 years old, limited in its methods and applications. This is owing to the extremely rapid development of the science since the 1970s. Only recently have tree rings as environmental sensors been fully recognized as a valuable tool in detecting environmental change. For example, tree ring measurements have been critically important in studies of forest decline in Europe and North America. There are also attempts to use tree-ring analysis for ecological prognosis to solve large-scale regional problems including the sustainability of water supplies, prediction of agricultural crops, and adoption of silvicultural measures in response to ecological changes. More speculatively, dendrochronological methods are also used for dating and evaluating some astrophysical phenomena and for indicating possible increase in the biospheric carrying capacity due to increased atmospheric carbon dioxide.

Popular Photography CSHL Press

Learn everything you need to know about creating video using the single-camera format, from preproduction planning to setting up, rehearsing, shooting, striking, and pleasing your audience. Harness lighting, audio,

editing, and aesthetic techniques that will enhance the quality of your video projects and keep your clients coming back for more. Simple, elegant, and easy to use, *Single-Camera Video Production, Sixth Edition* is a staple in any video artist's library. Whether you're just learning the basics of video production or you're a veteran who needs a refresher, this book provides you with a toolkit for understanding and implementing single-camera workflows, as well as how to use the single-camera format to its best advantage by emphasizing the importance of goals, audience analysis, and technology. This new edition has been updated to include: Expanded sections on digital workflows, field and studio production, preproduction planning, audio, lighting, distribution, and nonlinear editing techniques Detailed gear lists covering the latest camera, recorder, audio, lighting, and stabilization equipment used in the industry today Fresh tips on creating video for your target audience and exhibition platform and shooting for the editing process Insider career advice, including tips on how to get an internship, interviewing, finding a job, and earning a promotion A companion website

(www.focalpress.com/cw/musburger)

with video examples of the techniques discussed in the book as well as evolving updates on key technological shifts

Optical Metrology for Fluids, Combustion and Solids John Wiley & Sons

Integrated Security Systems Design, 2nd Edition, is recognized as the industry-leading book on the subject of security systems design. It explains how to design a fully integrated security system that ties together numerous subsystems into one complete, highly coordinated,

and highly functional system. With a flexible and scalable enterprise-level system, security decision makers can make better informed decisions when incidents occur and improve their operational efficiencies in ways never before possible. The revised edition covers why designing an integrated security system is essential and how to lead the project to success. With new and expanded coverage of network architecture, physical security information management (PSIM) systems, camera technologies, and integration with the Business Information Management Network, *Integrated Security Systems Design, 2nd Edition*, shows how to improve a security program's overall effectiveness while avoiding pitfalls and potential lawsuits. Guides the reader through the strategic, technical, and tactical aspects of the design process for a complete understanding of integrated digital security system design. Covers the fundamentals as well as special design considerations such as radio frequency systems and interfacing with legacy systems or emerging technologies. Demonstrates how to maximize safety while reducing liability and operating costs.

Quantitative Coronary Arteriography
Lexington Books

The Oxford Specialist Handbook of Urological Surgery returns fully updated for a second edition to guide the reader step-by-step through all types of urological operations. Including both background information on key urological problems and alternative surgical options, this Handbook is designed to guide the trainee through all aspects of urological surgery, from gaining clear and accurate consent to examining risks and complications of procedures. With each chapter written by subspecialty experts, this Handbook is packed with tips and tricks that offer practical and theatre-based advice gleaned over years of theatre experience to aid the reader. It also includes helpful pointers on aspects of surgery including patient positioning, indications and contraindications, types of incisions, and choice of ideal instrument, alongside aftercare and follow-up for the patient. Fully updated in accordance with new European guidelines and NICE clinical guidance, with extra topics on technological developments including robotic assisted surgery and a brand new chapter on female urology and incontinence, the Oxford Specialist Handbook of Urological Surgery is an essential resource for all urological trainees and junior doctors.