Vignetting

United States. Patent Office

Vignetting Artifact Reduction for Digital Camera Image Md. Taslim Reza,2012-04 Vignetting for an image refers to the phenomenon of brightness attenuation away from the image center, and it is a more concerned artifact for high resolution camera. This contributes to vignetting results from foreshortening of the lens when viewed from increasing angles from the optical axis. High resolution cameras suffer for this kind of artifact more. It is a concern to reduce the vignetting artifact by using less memory consumption. In this book, we consider the vignetting resulting from the mentioned factor almost any kind of sources and propose a method for removing the vignetting artifact after taking the image and linearization of that image. We synthesized some parameters on the basis of vignetting artifact for a particular digital camera. This approach takes very limited bits of memory that is necessary for mobile device. By applying our approach, it shows how this approach is efficient to reduce the vignetting artifact with limited memory consumption. The basic formation of a digital camera image from natural scene is also described clearly in this book.

Lens Design Milton Laikin,2018-10-03 There is no shortage of lens optimization software on the market to deal with today's complex optical systems for all sorts of custom and standardized applications. But all of these software packages share one critical flaw: you still have to design a starting solution. Continuing the bestselling tradition of the author's previous books, Lens Design, Fourth Edition is still the most complete and reliable guide for detailed design information and procedures for a wide range of optical systems. Milton Laikin draws on his varied and extensive experience, ranging from innovative cinematographic and special-effects optical systems to infrared and underwater lens systems, to cover a vast range of special-purpose optical systems and their detailed design and analysis. This edition has been updated to replace obsolete glass types and now includes several new designs and sections on stabilized systems, the human eye, spectrographic systems, and diffractive systems. A new CD-ROM accompanies this edition, offering extensive lens prescription data and executable ZEMAX files corresponding to figures in the text. Filled with sage advice and completely illustrated, Lens Design, Fourth Edition supplies hands-on guidance for the initial design and final optimization for a plethora of commercial, consumer, and specialized optical systems.

Computer Vision - ECCV 2008 David Forsyth,Philip Torr,Andrew Zisserman,2008-10-07 The four-volume set comprising LNCS volumes 5302/5303/5304/5305 constitutes the refereed proceedings of the 10th European Conference on Computer Vision, ECCV 2008, held in Marseille, France, in October 2008. The 243 revised papers presented were carefully reviewed and selected from a total of 871 papers submitted. The four books cover the entire range of current issues in computer vision. The papers are organized in topical sections on recognition, stereo, people and face recognition, object tracking, matching, learning and features, MRFs, segmentation, computational photography and active reconstruction.

Handbook of Optomechanical Engineering Anees Ahmad,1996-12-20 Good optical design is not in itself adequate for optimum performance of optical systems. The mechanical design of the optics and associated support structures is every bit as important as the optics themselves. Optomechanical engineering plays an increasingly important role in the success of new laser systems, space telescopes and instruments, biomedical and optical communication equipment, imaging entertainment systems, and more. This is the first handbook on the subject of optomechanical engineering, a subject that has become very important in the area of optics during the last decade. Covering all major aspects of optomechanical engineering - from conceptual design to fabrication and integration of complex optical systems - this handbook is comprehensive. The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design, development and integration of modern optical systems for commercial, space, and military applications. Charts, tables, figures, and photos augment this already impressive handbook. The text consists of ten chapters, each authored by a world-renowned expert. This unique collaboration makes the Handbook a comprehensive source of cutting edge information and research in the important field of optomechanical engineering. Some of the current research trends that are covered

include:

Foundation Course Black & White Photography David Tayor,2015-08-23 Aimed at beginners, Foundation Course: Landscape Photography is part of a series of tutorials that explain the basic skills and techniques of photography in relation to a specific subject area. Each book is divided into six main sections: Basics, Lessons, Revision, Project, Analysis and Progress. The concept of photography is presented in a concise, easy-to-follow manner. There's information on the types of camera, lenses, tripods, filters and other useful accessories; the basics of exposure, metering, aperture and shutter speed, ISO, dynamic range and using filters. There is also information on colour and composition, including the effects of light, the effects of colour on the perception of a photograph, and the basic 'rules' of composition.

Basic Photographic Materials and Processes Nanette L. Salvaggio,Josh Shagam,2019-09-23 Basic Photographic Materials and Processes describes the three crucial stages of creating the perfect photograph—capture, processing and output—by providing a thorough technical investigation of modern, applied photographic technologies. This new edition has been fully revised and updated to explore digital image capture, processing and output. It covers a wide range of topics including: the scientific principles of measuring and recording light, the inner workings of digital cameras, image processing concepts, color management and photographic output to screen and print media. With these topics come in-depth discussions of extending dynamic range, image histograms, camera characterization, display capabilities, printer and paper technologies. It also includes applied exercises that provide the reader with a deeper understanding of the material through hands-on experiments and demonstrations, connecting theoretical concepts to real-world use. This comprehensive text provides photography students, educators and working professionals with the technical knowledge required to successfully create images and manage digital photographic assets. It is an essential resource for mastering the technical craft of photography.

Adobe Lightroom 6 / CC Video Book: Training for Photographers Tony Northrup,Chelsea Northrup,2015-05-02 With this video book, you'll learn how to instantly find any picture in your library, fix common photography problems, clean up your images, add pop to boring pictures, retouch portraits, make gorgeous prints, create photo books, and even edit your home videos. Tony goes beyond teaching you how to use Lightroom. Tony shows you why and when to use each feature to create stunning, natural photos. When Lightroom isn t the best tool, Tony suggests better alternatives. Combining the benefits of video training and book learning, this video book gives you over 14 hours of video and dozens of free presets and raw images to practice with. If you learn better with video, watch the video training and refer to the book for quick reference. If you prefer reading, the book is concise and practical, and each chapter links to relevant videos when you want to understand a topic more deeply or see it used in the real world. Tony covers every aspect of Lightroom in-depth, but structures his teaching so that both beginner and advanced photographers can learn as efficiently as possible. If you just want a quick start, you can watch the first video or read the first chapter and you'll be organizing and editing your pictures in less than an hour. If you want to know more about a specific feature, switch to that video or jump to that chapter in the ebook. If you want to know everything about Lightroom, watch the videos and read the book from start to finish.

Introduction to Satellite Remote Sensing William Emery,Adriano Camps,2017-08-30 Introduction to Satellite Remote Sensing: Atmosphere, Ocean and Land Applications is the first reference book to cover ocean applications, atmospheric applications, and land applications of remote sensing. Applications of remote sensing data are finding increasing application in fields as diverse as wildlife ecology and coastal recreation management. The technology engages electromagnetic sensors to measure and monitor changes in the earth's surface and atmosphere. The book opens with an introduction to the history of remote sensing, starting from when the phrase was first coined. It goes on to discuss the basic concepts of the various systems, including atmospheric and ocean, then closes with a detailed section on land applications. Due to the cross disciplinary nature

of the authors' experience and the content covered, this is a must have reference book for all practitioners and students requiring an introduction to the field of remote sensing. Provides study questions at the end of each chapter to aid learning Covers all satellite remote sensing technologies, allowing readers to use the text as instructional material Includes the most recent technologies and their applications, allowing the reader to stay up-to-date Delves into laser sensing (LIDAR) and commercial satellites (DigitalGlobe) Presents examples of specific satellite missions, including those in which new technology has been introduced

Computational Approaches in the Transfer of Aesthetic Values from Paintings to Photographs Xiaoyan Zhang,Martin Constable,Kap Luk Chan,Jinze Yu,Wang Junyan,2017-07-18 This book examines paintings using a computational and quantitative approach. Specifically, it compares paintings to photographs, addressing the strengths and limitations of both. Particular aesthetic practices are examined such as the vista, foreground to background organisation and the depth planes. These are analysed using a range of computational approaches and clear observations are made. New generations of image-capture devices such as Google goggles and the light field camera, promise a future in which the formal attributes of a photograph are made available for editing to a degree that has hitherto been the exclusive territory of painting. In this sense paintings and photographs are converging, and it therefore seems an opportune time to study the comparisons between them. In this context, the book includes cutting-edge work examining how some of the aesthetic attributes of a painting can be transferred to a photograph using the latest computational approaches.

Computer Vision Richard Szeliski,2022-01-03 Computer Vision: Algorithms and Applications explores the variety of techniques used to analyze and interpret images. It also describes challenging real-world applications where vision is being successfully used, both in specialized applications such as image search and autonomous navigation, as well as for fun, consumer-level tasks that students can apply to their own personal photos and videos. More than just a source of "recipes," this exceptionally authoritative and comprehensive textbook/reference takes a scientific approach to the formulation of computer vision problems. These problems are then analyzed using the latest classical and deep learning models and solved using rigorous engineering principles. Topics and features: Structured to support active curricula and project-oriented courses, with tips in the Introduction for using the book in a variety of customized courses Incorporates totally new material on deep learning and applications such as mobile computational photography, autonomous navigation, and augmented reality Presents exercises at the end of each chapter with a heavy emphasis on testing algorithms and containing numerous suggestions for small mid-term projects Includes 1,500 new citations and 200 new figures that cover the tremendous developments from the last decade Provides additional material and more detailed mathematical topics in the Appendices, which cover linear algebra, numerical techniques, estimation theory, datasets, and software Suitable for an upper-level undergraduate or graduate-level course in computer science or engineering, this textbook focuses on basic techniques that work under real-world conditions and encourages students to push their creative boundaries. Its design and exposition also make it eminently suitable as a unique reference to the fundamental techniques and current research literature in computer vision.

The Proceedings of the International Conference on Sensing and Imaging Ming Jiang,Nathan Ida,Alfred K. Louis,Eric Todd Quinto,2018-09-18 This book collects a number of papers presented at the International Conference on Sensing and Imaging, which was held at Chengdu University of Information Technology on June 5-7, 2017. Sensing and imaging is an interdisciplinary field covering a variety of sciences and techniques such as optics, electricity, magnetism, heat, sound, mathematics, and computing technology. The field has diverse applications of interest such as sensing techniques, imaging, and image processing techniques. This book will appeal to professionals and researchers within the field.

Popular Photography - ND ,1947-01

Official Gazette of the United States Patent Office United States. Patent Office,1914

Optical Imaging and Photography Ulrich Teubner,Hans Josef Brückner,2023-12-18 This hand book is concerned with optical imaging – from simple pinhole cameras to complex imaging systems. It spans the range all the way from optical physics to technical optics. Based on ray- and wave-optical approaches complemented by principles of Fourier optics, the book discusses the process of imaging from the beginning until image capture where, in particular, the different topics are well integrated with each other. Different imaging systems and sensors are reviewed as well as lenses and aberrations, image intensification and processing. The second and enlarged edition has been updated by actual developments and complemented by the topic of smart phone camera photography. The latter plays an important role today in the field of optical imaging and represents a fully integrated optical system with potential for further new developments. For physicists, natural scientists, engineers, photographers and microscopists on one side and students of physics, natural sciences or engineering in general on the other side, the books provides an introduction into the complex field of optical imaging. For all of them with practical experience the book conveys a deeper insight into the intricacies and quality assessment of their daily used devices.

Official Gazette of the United States Patent Office USA Patent Office,1914

Handbook of Raman Spectroscopy Ian R. Lewis,Howell Edwards,2001-08-08 This work covers principles of Raman theory, analysis, instrumentation, and measurement, specifying up-to-the-minute benefits of Raman spectroscopy in a variety of industrial and academic fields, and how to cultivate growth in new disciplines. It contains case studies that illustrate current techniques in data extraction and analysis, as well as over 500 drawings and photographs that clarify and reinforce critical text material. The authors discuss Raman spectra of gases; Raman spectroscopy applied to crystals, applications to gemology, in vivo Raman spectroscopy, applications in forensic science, and collectivity of vibrational modes, among many other topics.

Applied Photographic Optics Sidney Ray,2002-02-20 Selected by the American Library Association's 'Choice' magazine as best technical book, the first edition of this book soon established itself as the standard reference work on all aspects of photographic lenses and associated optical systems. This is unsurprising, as Sidney Ray provides a complete, comprehensive reference source for anyone wanting information on photographic lenses, from the student to the practitioner or specialist working with visual and digital media worldwide. This third edition has been fully revised and expanded to include the rapid progress in the last decade in optical technology and advances in relevant electronic and digital forms of imaging. Every chapter has been revised and expanded using new figures and photographs as appropriate, as well as extended bibliographies. New chapters include details of filters, measurements from images and the optical systems of digital cameras. Details of electronic and digital imaging have been integrated throughout. More information is given on topics such as aspherics, diffractive optics, ED glasses, image stabilization, optical technology, video projection and new types of lenses. A selection of the contents includes chapters on: optical theory, aberrations, auto focus, lens testing, depth of field, development of photographic lenses, general properties of lenses, wide-angle lenses, telephoto lenses, video lenses, viewfinder systems, camera movements, projection systems and 3-D systems.

Adobe Photoshop Lightroom Classic CC Classroom in a Book (2019 Release) John Evans,RC Concepcion,Katrin Straub,2019-06-20 The fastest, easiest, most comprehensive way to learn Adobe Photoshop Lightroom Classic CC! Classroom in a Book®, the best-selling series of hands-on software training workbooks, offers what no other book or training program does—an official training series from Adobe, developed with the support of Adobe product experts. Adobe Photoshop Lightroom Classic CC Classroom in a Book (2019 release) contains 12 lessons that cover the basics and beyond, providing countless tips and techniques to help you become more productive with the program. You can follow the book from start to finish

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The Amateur Photographer ,1907 The popular illustrated journal for all photographers devoted to the interests of photography and kindred arts and sciences.

Digital SLR Astrophotography Michael A. Covington,2018-09-30 Digital SLR cameras have made it easier than ever before to photograph the night sky. Whether you're a beginner, nature photographer, or serious astronomer, this is the definitive handbook to capturing the heavens. Starting with simple projects for beginners such as cameras on tripods, it then moves onto more advanced projects including telescope photography and methods of astronomical research. With 80% revised and updated material, this new edition covers nightscapes, eclipses, using cameras with sky trackers and telescopes, and tools for identifying celestial objects and investigating them scientifically. Image processing is discussed in detail, with worked examples from three popular software packages - Nebulosity, Maxlm DL, and PixInsight. Rather than taking a recipe-book approach, Covington explains how your equipment works as well as offering advice on many practical considerations, such as choice of set-up and the testing of lenses, making this a comprehensive guide for anyone involved in astrophotography.

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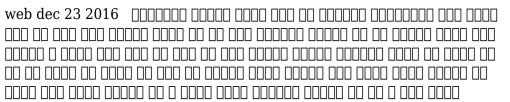احمد کسروی **author of** تاریخ مشروطه ایران - Aug 05 2023
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