

Geometric Image Warping

Jian Chen, Bingxi Jia, Kaixiang Zhang

Digital Image Warping George Wolberg,1990-08-10 This best-selling, original text focuses on image reconstruction, real-time texture mapping, separable algorithms, two-pass transforms, mesh warping, and special effects. The text, containing all original material, begins with the history of the field and continues with a review of common terminology, mathematical preliminaries, and digital image acquisition. Later chapters discuss equations for spatial information, interpolation kernels, filtering problems, and fast-warping techniques based on scanline algorithms.

Warping & Morphing of Graphical Objects Jonas Gomes,1999 Warping and morphing permeate the realm of computer graphics. This classic book defines the field: it presents a unifying view of warping and morphing, combining a conceptual framework with a consolidated view of the state of the art. Coverage includes deformations of various graphical objects such as plane curves, images, surfaces, and volumes. The authors developed a full-featured warping and morphing system, Morphos, where several types of graphical objects and computation techniques coexist. Morphos is included on the companion CD-ROM. This book and CD-ROM offer the most comprehensive professional reference available on warping and morphing techniques. Together they are the complete source for both researchers whose main interests are in the mathematical and conceptual foundations and computer graphics professionals who need to incorporate more warping and morphing techniques into their applications. Features: *The latest warping and morphing techniques and examples *An entire chapter on image-based rendering techniques and how they relate to warping and morphing *Companion CD-ROM containing source code and documentation for the Morphos system *Links to www.visgraf.impa.br/morph/, which provides an online bibliography and pointers to other regularly updated morphing websites

Geometric and Radiometric Image Warping Due to Displacement of Wide Field Optical Systems Robert S. Caprari,1996 This report investigates a problem that arises in the precise registration of images viewed from a moving wide field imaging sensor, such as an airborne missile threat warner. It analyses the geometry and radiometry of image formation by idealised, but otherwise arbitrary, imaging optics, thereby determining the image plane irradiance distribution. The analysis extends to determining the transformation of the irradiance (i.e. image warping) due to arbitrary displacement of the optical system; such image warping being separable into geometric (i.e. image point shift) and radiometric (i.e. intensity scaling) components. Numerical simulations demonstrate the severity of the radiometric warping for wide field images - an especially important result, since radiometric warping is conventionally neglected in image registration. Exact solution for the warping due to pure rotation of an idealised imager are presented. These are completely independent of the scene. An examination of the inclusion of imager translation shows that the warping becomes formally dependent on the scene topography, and emission/scattering directionality. Simulations of the use of block matching to achieve approximate registration are presented.

Modern Image Processing: Warping, Morphing, and Classical Techniques Christopher Watkins,1993-08-04 Modern Image Processing: Warping, Morphing, and Classical Techniques

Multi-View Geometry Based Visual Perception and Control of Robotic Systems Jian Chen,Bingxi Jia,Kaixiang Zhang,2018-06-14 This book describes visual perception and control methods for robotic systems that need to interact with the environment. Multiple view geometry is utilized to extract low-dimensional geometric information from abundant and high-dimensional image information, making it convenient to develop general solutions for robot perception and control tasks. In this book, multiple view geometry is used for geometric modeling and scaled pose estimation. Then Lyapunov methods are applied to design stabilizing control laws in the presence of model uncertainties and multiple constraints.

Parallel and Distributed Processing and Applications Jiannong Cao,Laurence T. Yang,Minyi Guo,Francis Lau,2004-12-02 This book constitutes the refereed proceedings of the Second International Symposium on Parallel and Distributed Processing and Applications, ISPA 2004, held in Hong Kong, China in December 2004. The 78 revised full papers and 38 revised short papers presented were carefully reviewed and selected from 361 submissions. The papers are organized in topical sections on parallel algorithms and systems, data mining and management, distributed algorithms and systems, fault tolerance protocols and systems, sensor networks and protocols, cluster systems, grid applications and systems, peer-to-peer and ad hoc networking, grid scheduling and algorithms, data replication and caching, software engineering and testing, grid protocols, context-aware and mobile computing, distributed routing and switching protocols, cluster resource scheduling and algorithms, security, high performance processing, networking and protocols, artificial intelligence systems, hardware architecture and implementations, high performance computing architecture, and distributed systems architecture.

Adaptive and Natural Computing Algorithms Bartłomiej Beliczynski,Andrzej Dzieliński,Marcin Iwanowski,Bernadete Ribeiro,2007-07-03 The two volume set LNCS 4431 and LNCS 4432 constitutes the refereed proceedings of the 8th International Conference on Adaptive and Natural Computing Algorithms, ICANNGA 2007, held in Warsaw, Poland, in April 2007. The 178 revised full papers presented were carefully reviewed and selected from a total of 474 submissions.

Face Geometry and Appearance Modeling Zicheng Liu,Zhengyou Zhang,2011-04-18 Human faces are familiar to our visual systems. We easily recognize a person's face in arbitrary lighting conditions and in a variety of poses; detect small appearance changes; and notice subtle expression details. Can computer vision systems process face images as well as human vision systems can? Face image processing has potential applications in surveillance, image and video search, social networking and other domains. A comprehensive guide to this fascinating topic, this book provides a systematic description of modeling face geometry and appearance from images, including information on mathematical tools, physical concepts, image processing and computer vision techniques, and concrete prototype systems. The book will be an excellent reference for researchers and graduate students in computer vision, computer graphics and multimedia, as well as application developers who would like to gain a better understanding of the state of the art.

Microscope Image Processing Fatima Merchant,Kenneth Castleman,2022-08-26 Microscope Image Processing, Second Edition, introduces the basic fundamentals of image formation in microscopy including the importance of image digitization and display, which are key to quality visualization. Image processing and analysis are discussed in detail to provide readers with the tools necessary to improve the visual quality of images, and to extract quantitative information. Basic techniques such as image enhancement, filtering, segmentation, object measurement, and pattern recognition cover concepts integral to image processing. In addition, chapters on specific modern microscopy techniques such as fluorescence imaging, multispectral imaging, three-dimensional imaging and time-lapse imaging, introduce these key areas with emphasis on the differences among the various techniques. The new edition discusses recent developments in microscopy such as light sheet microscopy, digital microscopy, whole slide imaging, and the use of deep learning techniques for image segmentation and analysis with big data image informatics and management. Microscope Image Processing, Second Edition, is suitable for engineers, scientists, clinicians, post-graduate fellows and graduate students working in bioengineering, biomedical engineering, biology, medicine, chemistry, pharmacology and related fields, who use microscopes in their work and would like to understand the methodologies and capabilities of the latest digital image processing techniques or desire to develop their own image processing algorithms and software for specific applications. Presents a unique practical perspective of state-of-the-art microscope image processing and the development of specialized algorithms Each chapter includes in-depth analysis of methods coupled with the results of specific real-world experiments Co-edited by Kenneth R. Castleman, world-renowned pioneer in digital image processing and author of two seminal textbooks on the subject

Academic Press Library in Signal Processing ,2013-09-14 This fourth volume, edited and authored by world leading experts, gives a review of the principles, methods and techniques of important and emerging research topics and technologies in Image, Video Processing and Analysis, Hardware, Audio, Acoustic and Speech Processing. With this reference source you will: Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in Image, Video Processing and Analysis, Hardware, Audio, Acoustic and Speech Processing Presents core principles and shows their application Reference content on core principles, technologies, algorithms and applications

Comprehensive references to journal articles and other literature on which to build further, more specific and detailed knowledge Edited by leading people in the field who, through their reputation, have been able to commission experts to write on a particular topic

Digital Image Processing and Analysis Scott E Umbaugh,2017-11-30 Digital image processing and analysis is a field that continues to experience rapid growth, with applications in many facets of our lives. Areas such as medicine, agriculture, manufacturing, transportation, communication systems, and space exploration are just a few of the application areas. This book takes an engineering approach to image processing and analysis, including more examples and images throughout the text than the previous edition. It provides more material for illustrating the concepts, along with new PowerPoint slides. The application development has been expanded and updated, and the related chapter provides step-by-step tutorial examples for this type of development. The new edition also includes supplementary exercises, as well as MATLAB-based exercises, to aid both the reader and student in development of their skills.

Image and Geometry Processing for 3-D Cinematography Rémi Ronfard,Gabriel Taubin,2010-06-29 papers, illustrated with examples. They include wavelet bases, implicit functions defined on a space grid, etc. It appears that a common pattern is the recovery of a controllable model of the scene, such that the resulting images can be edited (interaction). Changing the viewpoint is only one (important) aspect, but changing the lighting and action is equally important [2]. Recording and representing three-dimensional scenes is an emerging technology made possible by the convergence of optics, geometry and computer science, with many applications in the movie industry, and more generally in entertainment. Note that the invention of cinema (camera and projector) was also primarily a scientific invention that evolved into an art form. We suspect the same thing will probably happen with 3-D movies. 3 Book Contents The book is composed of 12 chapters, which elaborate on the content of talks given at the BANFF workshop. The chapters are organized into three sections. The first section presents an overview of the inter-relations between the art of cinematography and the science of image and geometry processing; the second section is devoted to recent developments in geometry; and the third section is devoted to recent developments in image processing. 3.1 3-D Cinematography and Applications The first section of the book presents an overview of the inter-relations between the art of cinematography and the science of image and geometry processing.

Geometric Modeling for Scientific Visualization Guido Brunnett,Bernd Hamann,Heinrich Müller,Lars Linsen,2013-04-17 Geometric Modeling and Scientific Visualization are both established disciplines, each with their own series of workshops, conferences and journals. But clearly both disciplines overlap; this observation led to the idea of composing a book on Geometric Modeling for Scientific Visualization.

Essential Image Processing and GIS for Remote Sensing Jian Guo Liu,Philippa J. Mason,2013-04-10 Essential Image Processing and GIS for Remote Sensing is an accessible overview of the subject and successfully draws together these three key areas in a balanced and comprehensive manner. The book provides an overview of essential techniques and a selection of key case studies in a variety of application areas. Key concepts and ideas are introduced in a clear and logical manner and described through the provision of numerous relevant conceptual illustrations. Mathematical detail is kept to a minimum and only referred to where necessary for ease of understanding. Such concepts are explained through common sense terms rather than in rigorous mathematical detail when explaining image processing and GIS techniques, to enable students to grasp the essentials of a notoriously challenging subject area. The book is clearly divided into three parts, with the first part introducing essential image processing techniques for remote sensing. The second part looks at GIS and begins with an overview of the concepts, structures and mechanisms by which GIS operates. Finally the third part introduces Remote Sensing Applications. Throughout the book the relationships between GIS, Image Processing and Remote Sensing are clearly identified to ensure that students are able to apply the various techniques that have been covered appropriately. The latter chapters use numerous relevant case studies to illustrate various remote sensing, image processing and GIS applications in practice.

Image Processing and Analysis Richard Baldock,Jim Graham,1999-12-09 A wide range of books on image processing and analysis provide comprehensive descriptions of mathematics and algorithms for image processing practitioners, or introductory material for engineering students. This volume is different in addressing the topic from the point of view of the user. Standard algorithms, procedures and rules of thumb are explained in the context of successful application to biological or medical images. Early chapters cover the basic topics of image acquisition, processing, analysis and pattern recognition. Much of the explanation is in the form of protocols, which should equip the user in the biological or earth sciences with the background for informed use of image processing software, and sufficient knowledge to write their own programmes if they feel moved to do so. More advanced techniques in the use of explicit models and analysis of 3D images are covered in later chapters, also with reference to specific applications. The coverage of these is not exhaustive, but may inspire the reader to consider applying image analysis to problems beyond those tackled by commercial packages.

Computer Vision – ECCV 2020 Andrea Vedaldi,Horst Bischof,Thomas Brox,Jan-Michael Frahm,2020-11-12 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.

Practical Image and Video Processing Using MATLAB Oge Marques,2011-08-04 UP-TO-DATE, TECHNICALLY ACCURATE COVERAGE OF ESSENTIAL TOPICS IN IMAGE AND VIDEO PROCESSING This is the first book to combine image and video processing with a practical MATLAB®-oriented approach in order to demonstrate the most important image and video techniques and algorithms. Utilizing minimal math, the contents are presented in a clear, objective manner, emphasizing and encouraging experimentation. The book has been organized into two parts. Part I: Image Processing begins with an overview of the field, then introduces the fundamental concepts, notation, and terminology associated with image representation and basic image processing operations. Next, it discusses MATLAB® and its Image Processing Toolbox with the start of a series of chapters with hands-on activities and step-by-step tutorials. These chapters cover image acquisition and digitization; arithmetic, logic, and geometric operations; point-based, histogram-based, and neighborhood-based image enhancement techniques; the Fourier Transform and relevant frequency-domain image filtering techniques; image restoration; mathematical morphology; edge detection techniques; image segmentation; image compression and coding; and feature extraction and representation. Part II: Video Processing presents the main concepts and terminology associated with analog video signals and systems, as well as digital video formats and standards. It then describes the technically involved problem of standards conversion, discusses motion estimation and compensation techniques, shows how video sequences can be filtered, and concludes with an example of a solution to object detection and tracking in video sequences using MATLAB®. Extra features of this book include: More than 30 MATLAB® tutorials, which consist of step-by-step guides to exploring image and video processing techniques using MATLAB® Chapters supported by figures, examples, illustrative problems, and exercises Useful websites and an extensive list of bibliographical references This accessible text is ideal for upper-level undergraduate and graduate students in digital image and video processing courses, as well as for engineers, researchers, software developers, practitioners, and anyone who wishes to learn about these increasingly popular topics on their own.

Image Processing and GIS for Remote Sensing Jian Guo Liu,Philippa J. Mason,2016-03-21 Following the successful publication of the 1st edition in 2009, the 2nd edition maintains its aim to provide an application-driven package of essential techniques in image processing and GIS, together with case studies for demonstration and guidance in remote sensing applications. The book therefore has a “3 in 1” structure which pinpoints the intersection between these three individual disciplines and successfully draws them together in a balanced and comprehensive manner. The book conveys in-depth knowledge of image processing and GIS techniques in an

accessible and comprehensive manner, with clear explanations and conceptual illustrations used throughout to enhance student learning. The understanding of key concepts is always emphasised with minimal assumption of prior mathematical experience. The book is heavily based on the authors' own research. Many of the author-designed image processing techniques are popular around the world. For instance, the SFIM technique has long been adopted by ASTRIUM for mass-production of their standard "Pan-sharpen" imagery data. The new edition also includes a completely new chapter on subpixel technology and new case studies, based on their recent research.

Microscope Image Processing Qiang Wu, Fatima Merchant, Kenneth Castleman, 2010-07-27 Digital image processing, an integral part of microscopy, is increasingly important to the fields of medicine and scientific research. This book provides a unique one-stop reference on the theory, technique, and applications of this technology. Written by leading experts in the field, this book presents a unique practical perspective of state-of-the-art microscope image processing and the development of specialized algorithms. It contains in-depth analysis of methods coupled with the results of specific real-world experiments. Microscope Image Processing covers image digitization and display, object measurement and classification, autofocus, and structured illumination. Key Features: Detailed descriptions of many leading-edge methods and algorithms In-depth analysis of the method and experimental results, taken from real-life examples Emphasis on computational and algorithmic aspects of microscope image processing Advanced material on geometric, morphological, and wavelet image processing, fluorescence, three-dimensional and time-lapse microscopy, microscope image enhancement, MultiSpectral imaging, and image data management This book is of interest to all scientists, engineers, clinicians, post-graduate fellows, and graduate students working in the fields of biology, medicine, chemistry, pharmacology, and other related fields. Anyone who uses microscopes in their work and needs to understand the methodologies and capabilities of the latest digital image processing techniques will find this book invaluable. Presents a unique practical perspective of state-of-the-art microscope image processing and the development of specialized algorithms Each chapter includes in-depth analysis of methods coupled with the results of specific real-world experiments Co-edited by Kenneth R. Castleman, world-renowned pioneer in digital image processing and author of two seminal textbooks on the subject

Efficient Implementation of Image Warping on a Multimedia Processor Owen Daniel Evans, 1996

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Geometric Image Warping**

In a global inundated with displays and the cacophony of quick interaction, the profound power and mental resonance of verbal art frequently disappear in to obscurity, eclipsed by the constant barrage of noise and distractions. Yet, situated within the lyrical pages of **Geometric Image Warping**, a captivating function of fictional elegance that impulses with raw thoughts, lies an unique journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that mesmerizing opus courses visitors on a psychological odyssey, softly revealing the latent potential and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is central subjects, dissect its charming publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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