

PERCEPTUAL DIGITAL IMAGING

METHODS AND APPLICATIONS

EDITED BY
RASTISLAV LUKAC



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Perceptual Digital Imaging Methods And Applications

Digital Imaging And Computer Vision

Olivier Lezoray, Leo Grady



Perceptual Digital Imaging Methods And Applications Digital Imaging And Computer Vision:

Perceptual Digital Imaging Rastislav Lukac, 2017-12-19 Visual perception is a complex process requiring interaction between the receptors in the eye that sense the stimulus and the neural system and the brain that are responsible for communicating and interpreting the sensed visual information This process involves several physical neural and cognitive phenomena whose understanding is essential to design effective and computationally efficient imaging solutions Building on advances in computer vision image and video processing neuroscience and information engineering perceptual digital imaging greatly enhances the capabilities of traditional imaging methods Filling a gap in the literature Perceptual Digital Imaging Methods and Applications comprehensively covers the system design implementation and application aspects of this emerging specialized area It gives readers a strong fundamental understanding of theory and methods providing a foundation on which solutions for many of the most interesting and challenging imaging problems can be built The book features contributions by renowned experts who present the state of the art and recent trends in image acquisition processing storage display and visual quality evaluation They detail advances in the field and explore human visual system driven approaches across a broad spectrum of applications including Image quality and aesthetics assessment Digital camera imaging White balancing and color enhancement Thumbnail generation Image restoration Super resolution imaging Digital halftoning and dithering Color feature extraction Semantic multimedia analysis and processing Video shot characterization Image and video encryption Display quality enhancement This is a valuable resource for readers who want to design and implement more effective solutions for cutting edge digital imaging computer vision and multimedia applications Suitable as a graduate level textbook or stand alone reference for researchers and practitioners it provides a unique overview of an important and rapidly developing research field

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and aesthetics assessment Digital camera imaging White balancing and color enhancement Thumbnail generation Image restoration Super resolution imaging Digital halftoning and dithering Color feature extraction Semantic multimedia analysis and processing Video shot characterization Image and video encryption Display quality enhancement This is a valuable resource for readers who want to design and implement more effective solutions for cutting edge digital imaging computer vision and multimedia applications Suitable as a graduate level textbook or stand alone reference for researchers and practitioners it provides a unique overview of an important and rapidly developing research field

Digital Image Processing and Analysis Scott E Umbaugh, 2022-12-30 Digital Image Enhancement Restoration and Compression focuses on human vision based imaging application development Examples include making poor images look better the development of advanced compression algorithms special effects imaging for motion pictures and the restoration of satellite images distorted by atmospheric disturbance This book presents a unique engineering approach to the practice of digital imaging which starts by presenting a global model to help gain an understanding of the overall process followed by a breakdown and explanation of each individual topic Topics are presented as they become necessary for understanding the practical imaging model under study which provides the reader with the motivation to learn about and use the tools and methods being explored The book includes chapters on imaging systems and software the human visual system image transforms image filtering image enhancement image restoration and image compression Numerous examples including over 700 color images are used to illustrate the concepts discussed Readers can explore their own application development with any programming language including C C MATLAB Python and R and software is provided for both the Windows C C and MATLAB environments The book can be used by the academic community in teaching and research with over 1 000 PowerPoint slides and a complete solutions manual to the over 230 included problems It can also be used for self study by those involved with application development whether they are engineers scientists or artists The new edition has been extensively updated and includes numerous problems and programming exercises that will help the reader and student develop their skills

Digital Imaging for Cultural Heritage Preservation Filippo Stanco, Sebastiano Battiato, Giovanni Gallo, 2017-12-19 This edition presents the most prominent topics and applications of digital image processing analysis and computer graphics in the field of cultural heritage preservation The text assumes prior knowledge of digital image processing and computer graphics fundamentals Each chapter contains a table of contents illustrations and figures that elucidate the presented concepts in detail as well as a chapter summary and a bibliography for further reading Well known experts cover a wide range of topics and related applications including spectral imaging automated restoration computational reconstruction digital reproduction and 3D models

Deep Learning in Computer Vision Mahmoud Hassaballah, Ali Ismail Awad, 2020-03-23 Deep learning algorithms have brought a revolution to the computer vision community by introducing non traditional and efficient solutions to several image related problems that had long remained unsolved or partially addressed This book presents a collection of

eleven chapters where each individual chapter explains the deep learning principles of a specific topic introduces reviews of up to date techniques and presents research findings to the computer vision community The book covers a broad scope of topics in deep learning concepts and applications such as accelerating the convolutional neural network inference on field programmable gate arrays fire detection in surveillance applications face recognition action and activity recognition semantic segmentation for autonomous driving aerial imagery registration robot vision tumor detection and skin lesion segmentation as well as skin melanoma classification The content of this book has been organized such that each chapter can be read independently from the others The book is a valuable companion for researchers for postgraduate and possibly senior undergraduate students who are taking an advanced course in related topics and for those who are interested in deep learning with applications in computer vision image processing and pattern recognition

Visual Cryptography and Secret Image Sharing Stelvio Cimato, Ching-Nung Yang, 2017-12-19 With rapid progress in Internet and digital imaging technology there are more and more ways to easily create publish and distribute images Considered the first book to focus on the relationship between digital imaging and privacy protection Visual Cryptography and Secret Image Sharing is a complete introduction to novel security methods and sharing control mechanisms used to protect against unauthorized data access and secure dissemination of sensitive information Image data protection and image based authentication techniques offer efficient solutions for controlling how private data and images are made available only to select people Essential to the design of systems used to manage images that contain sensitive data such as medical records financial transactions and electronic voting systems the methods presented in this book are useful to counter traditional encryption techniques which do not scale well and are less efficient when applied directly to image files An exploration of the most prominent topics in digital imaging security this book discusses Potential for sharing multiple secrets Visual cryptography schemes based either on the probabilistic reconstruction of the secret image or on different logical operations for combining shared images Inclusion of pictures in the distributed shares Contrast enhancement techniques Color image visual cryptography Cheating prevention Alignment problems for image shares Steganography and authentication In the continually evolving world of secure image sharing a growing number of people are becoming involved as new applications and business models are being developed all the time This contributed volume gives academicians researchers and professionals the insight of well known experts on key concepts issues trends and technologies in this emerging field

Microarray Image and Data Analysis Luis Rueda, 2018-09-03 Microarray Image and Data Analysis Theory and Practice is a compilation of the latest and greatest microarray image and data analysis methods from the multidisciplinary international research community Delivering a detailed discussion of the biological aspects and applications of microarrays the book Describes the key stages of image processing gridding segmentation compression quantification and normalization Features cutting edge approaches to clustering biclustering and the reconstruction of regulatory networks Covers different types of microarrays such as DNA

protein tissue and low and high density oligonucleotide arrays Examines the current state of various microarray technologies including their availability and affordability Explains how data generated by microarray experiments are analyzed to obtain meaningful biological conclusions An essential reference for academia and industry Microarray Image and Data Analysis Theory and Practice provides readers with valuable tools and techniques that extend to a wide range of biological studies and microarray platforms

Image Processing and Analysis with Graphs Olivier Lezoray, Leo Grady, 2017-07-12 Covering the theoretical aspects of image processing and analysis through the use of graphs in the representation and analysis of objects Image Processing and Analysis with Graphs Theory and Practice also demonstrates how these concepts are indispensable for the design of cutting edge solutions for real world applications Explores new applications in computational photography image and video processing computer graphics recognition medical and biomedical imaging With the explosive growth in image production in everything from digital photographs to medical scans there has been a drastic increase in the number of applications based on digital images This book explores how graphs which are suitable to represent any discrete data by modeling neighborhood relationships have emerged as the perfect unified tool to represent process and analyze images It also explains why graphs are ideal for defining graph theoretical algorithms that enable the processing of functions making it possible to draw on the rich literature of combinatorial optimization to produce highly efficient solutions Some key subjects covered in the book include Definition of graph theoretical algorithms that enable denoising and image enhancement Energy minimization and modeling of pixel labeling problems with graph cuts and Markov Random Fields Image processing with graphs targeted segmentation partial differential equations mathematical morphology and wavelets Analysis of the similarity between objects with graph matching Adaptation and use of graph theoretical algorithms for specific imaging applications in computational photography computer vision and medical and biomedical imaging Use of graphs has become very influential in computer science and has led to many applications in denoising enhancement restoration and object extraction Accounting for the wide variety of problems being solved with graphs in image processing and computer vision this book is a contributed volume of chapters written by renowned experts who address specific techniques or applications This state of the art overview provides application examples that illustrate practical application of theoretical algorithms Useful as a support for graduate courses in image processing and computer vision it is also perfect as a reference for practicing engineers working on development and implementation of image processing and analysis algorithms

Semantic Multimedia Analysis and Processing Evaggelos Spyrou, Dimitris Iakovidis, Phivos Mylonas, 2017-12-19 Broad in scope Semantic Multimedia Analysis and Processing provides a complete reference of techniques algorithms and solutions for the design and the implementation of contemporary multimedia systems Offering a balanced global look at the latest advances in semantic indexing retrieval analysis and processing of multimedia the book features the contributions of renowned researchers from around the world Its contents are based on four fundamental thematic pillars 1 information and content retrieval 2 semantic knowledge

exploitation paradigms 3 multimedia personalization and 4 human computer affective multimedia interaction Its 15 chapters cover key topics such as content creation annotation and modeling for the semantic web multimedia content understanding and efficiency and scalability Fostering a deeper understanding of a popular area of research the text Describes state of the art schemes and applications Supplies authoritative guidance on research and deployment issues Presents novel methods and applications in an informative and reproducible way Contains numerous examples illustrations and tables summarizing results from quantitative studies Considers ongoing trends and designates future challenges and research perspectives Includes bibliographic links for further exploration Uses both SI and US units Ideal for engineers and scientists specializing in the design of multimedia systems software applications and image video analysis and processing technologies Semantic Multimedia Analysis and Processing aids researchers practitioners and developers in finding innovative solutions to existing problems opening up new avenues of research in uncharted waters

Image Restoration Bahadir Kursat Gunturk,Xin Li,2018-09-03 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

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