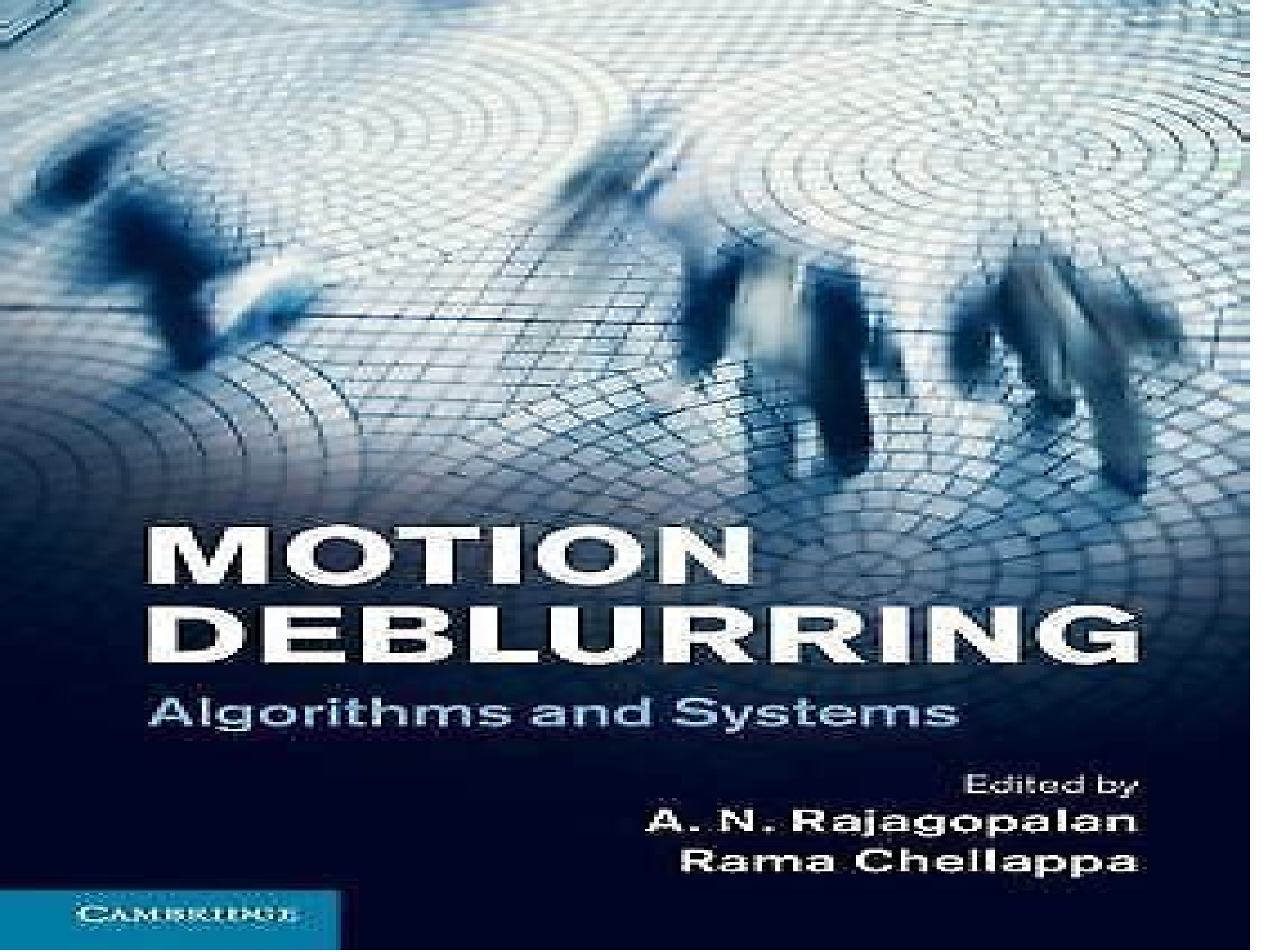


The background of the book cover is a blurred photograph of several people walking on a cobblestone path. Overlaid on the image are several concentric circles, resembling ripples in water, which are centered on the path. The overall color scheme is a mix of blue and grey tones.

MOTION DEBLURRING

Algorithms and Systems

Edited by
A. N. Rajagopalan
Rama Chellappa

CAMBRIDGE

Motion Deblurring Algorithms And Systems

Hussin A.Rothana



Motion Deblurring Algorithms And Systems:

Motion Deblurring A. N. Rajagopalan, Rama Chellappa, 2014 Motion Deblurring A. N. Rajagopalan, Rama Chellappa, 2014-05-08 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 **Hochdurchsatz-Mikroskopie von Mikrotiterplatten auf Basis einer kontinuierlichen Objektbewegung** Friedrich Walter Schenk, 2016-11-11 Die Arbeit beschreibt ein Verfahren zu Hochdurchsatz Mikroskopie mit dem gro ße Objekte wie Mikrotiterplatten deutlich schneller als mit herkömmlichen Verfahren gescannt werden können ohne Einbu ßen der Bildqualität Dazu wird das Objekt während einer kontinuierlichen Bewegung digitalisiert wobei Bewegungsunschärfe durch eine Blitzbeleuchtung vermieden wird Dank eines neuartigen Hardware Autofokussystems bleibt das Objekt während des Scans zudem stets im Fokus A Survey of Blur Detection and Sharpness Assessment Methods Juan Andrade, 2022-06-01 Blurring is almost an omnipresent effect on natural images The main causes of blurring in images include a the existence of objects at different depths within the scene which is known as defocus blur b blurring due to motion either of objects in the scene or the imaging device and c blurring due to atmospheric turbulence Automatic estimation of spatially varying sharpness blurriness has several applications including depth estimation image quality assessment information retrieval image restoration among others There are some cases in which blur is intentionally introduced or enhanced for example in artistic photography and cinematography in which blur is intentionally introduced to emphasize a certain image region Bokeh is a technique that introduces defocus blur with aesthetic purposes Additionally in trending applications like augmented and virtual reality usually blur is introduced in order to provide enhanced depth perception Digital images and videos are produced every day in astonishing amounts and the demand for higher quality is constantly rising which creates a need for advanced image quality assessment Additionally image quality assessment is important for the performance of image processing algorithms It has been determined that image noise and artifacts can affect the performance of algorithms such as face detection and recognition image saliency detection and video target tracking Therefore image quality assessment IQA has been a topic of intense research in the fields

of image processing and computer vision Since humans are the end consumers of multimedia signals subjective quality metrics provide the most reliable results however their cost in addition to time requirements makes them unfeasible for practical applications Thus objective quality metrics are usually preferred *Proceedings of International Conference on Recent Innovations in Computing* Yashwant Singh, Pradeep Kumar Singh, Maheshkumar H. Kolekar, Arpan Kumar Kar, Paulo J. Sequeira Gonçalves, 2023-05-02 This book features selected papers presented at the 5th International Conference on Recent Innovations in Computing ICRIC 2022 held on May 13 14 2022 at the Central University of Jammu India and organized by the university's Department of Computer Science and Information Technology The conference was hosted in association with ELTE Hungary Knowledge University Erbil Cyber Security Research Lab and many other national international partners The book is divided into two volumes and it includes the latest research in the areas of software engineering cloud computing computer networks and Internet technologies artificial intelligence information security database and distributed computing and digital India

Infrared Thermal Imaging Michael Vollmer, Klaus-Peter Möllmann, 2018-02-20 This new up to date edition of the successful handbook and ready reference retains the proven concept of the first covering basic and advanced methods and applications in infrared imaging from two leading expert authors in the field All chapters have been completely revised and expanded and a new chapter has been added to reflect recent developments in the field and report on the progress made within the last decade In addition there is now an even stronger focus on real life examples with 20% more case studies taken from science and industry For ease of comprehension the text is backed by more than 590 images which include graphic visualizations and more than 300 infrared thermography figures The latter include many new ones depicting for example spectacular views of phenomena in nature sports and daily life

Data Science Rui Mao, Hongzhi Wang, Xiaolan Xie, Zeguang Lu, 2019-09-13 This two volume set CCIS 1058 and 1059 constitutes the refereed proceedings of the 5th International Conference of Pioneering Computer Scientists Engineers and Educators ICPCSEE 2019 held in Guilin China in September 2019 The 104 revised full papers presented in these two volumes were carefully reviewed and selected from 395 submissions The papers cover a wide range of topics related to basic theory and techniques for data science including data mining data base net work security machine learning bioinformatics natural language processing software engineering graphic images system education application

ICOL-2019 Kehar Singh, A K Gupta, Sudhir Khare, Nimish Dixit, Kamal Pant, 2021-03-01 This book presents peer reviewed articles from the International Conference on Optics and Electro optics ICOL 2019 held at Dehradun in India It brings together leading researchers and professionals in the field of optics optical engineering optical materials and provides a platform to present and establish collaborations in this important area with the theme Trends in Electro optics Instrumentation for Strategic Applications Topics covered but not limited to are Optical Engineering Optical Thin Films Optical Materials IR Sensors Image Processing Systems Photonic Band Gap Materials Adaptive Optics Optical Image Processing Holography Lasers Fiber Lasers its Applications Diffractive Optics Innovative

packaging of Optical Systems Nanophotonics Devices and Applications Optical Interferometry Metrology Terahertz Millimeter Wave Microwave Photonics Fiber Integrated Nonlinear Optics and Optics and Electro optics for Strategic Applications Intelligent Sensing Technologies for Nondestructive Evaluation Seunghee Park,Aimé Lay-Ekuakille,Octavian Postolache,Pedro Manuel Brito da Silva Girão,2018-05-08 This book is a printed edition of the Special Issue Intelligent Sensing Technologies for Nondestructive Evaluation that was published in Sensors *Image Analysis* Rikke Gade,Michael Felsberg,Joni-Kristian Kämäräinen,2023-04-26 This two volume set LNCS 13885 13886 constitutes the refereed proceedings of the 23rd Scandinavian Conference on Image Analysis SCIA 2023 held in Lapland Finland in April 2023 The 67 revised papers presented were carefully reviewed and selected from 108 submissions The contributions are structured in topical sections on datasets and evaluation action and behaviour recognition image and video processing analysis and understanding detection recognition classification and localization in 2D and or 3D machine learning and deep learning segmentation grouping and shape vision for robotics and autonomous vehicles biometrics faces body gestures and pose 3D vision from multiview and other sensors vision applications and systems *Emerging Technologies for Information Systems, Computing, and Management* W. Eric Wong,Tinghuai Ma,2013-06-06 This book aims to examine innovation in the fields of information technology software engineering industrial engineering management engineering Topics covered in this publication include Information System Security Privacy Quality Assurance High Performance Computing and Information System Management and Integration The book presents papers from The Second International Conference for Emerging Technologies Information Systems Computing and Management ICM2012 which was held on December 1 to 2 2012 in Hangzhou China **2D and 3D Image Analysis by Moments** Jan Flusser,Tomas Suk,Barbara Zitova,2016-11-15 Presents recent significant and rapid development in the field of 2D and 3D image analysis 2D and 3D Image Analysis by Moments is a unique compendium of moment based image analysis which includes traditional methods and also reflects the latest development of the field The book presents a survey of 2D and 3D moment invariants with respect to similarity and affine spatial transformations and to image blurring and smoothing by various filters The book comprehensively describes the mathematical background and theorems about the invariants but a large part is also devoted to practical usage of moments Applications from various fields of computer vision remote sensing medical imaging image retrieval watermarking and forensic analysis are demonstrated Attention is also paid to efficient algorithms of moment computation Key features Presents a systematic overview of moment based features used in 2D and 3D image analysis Demonstrates invariant properties of moments with respect to various spatial and intensity transformations Reviews and compares several orthogonal polynomials and respective moments Describes efficient numerical algorithms for moment computation It is a classroom ready textbook with a self contained introduction to classifier design The accompanying website contains around 300 lecture slides Matlab codes complete lists of the invariants test images and other supplementary material 2D and 3D

Image Analysis by Moments is ideal for mathematicians computer scientists engineers software developers and Ph D students involved in image analysis and recognition Due to the addition of two introductory chapters on classifier design the book may also serve as a self contained textbook for graduate university courses on object recognition

Communications, Signal Processing, and Systems Qilian Liang,Wei Wang,Xin Liu,Zhenyu Na,Min Jia,Baoju Zhang,2020-04-04 This book brings together papers from the 2019 International Conference on Communications Signal Processing and Systems which was held in Urumqi China on July 20 22 2019 Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications to signal processing and systems It is chiefly intended for undergraduate and graduate students in electrical engineering computer science and mathematics researchers and engineers from academia and industry as well as government employees

5G-Based Smart Hospitals and Healthcare Systems Arun Kumar,Sumit Chakravarty,Aravinda K,Mohit Kumar Sharma,2023-12-13 With the increase in the development of the advanced cellular communication system it is assumed that several sectors such as the health industry education transport industry business model and so on will rapidly grow However the requirements of the above mentioned sectors are different and difficult to fulfill Hence 5G will be integral to several networks and will also need a unique management system for its successful rollout around the globe 5G Based Smart Hospitals and Healthcare Systems Evaluation Integration and Deployment provides an overview of the role of advanced technologies in transforming the healthcare industry It emphasizes the technical requirements of smart hospitals and the technologies associated with them along with explaining how technologies such as IoT machine learning and AI can be integrated with smart hospitals and 5G networks The book evaluates several concerns such as privacy of data infrastructure costs and regular upgradability of technologies Since the storage of information is a major concern with the implantation of 5G based hospitals this book will specifically address those issues along with examining the potential pitfalls of 5G based hospitals and the factors that cause their failures This book specifically targets professionals academicians engineers researchers management firms technical institutes R D establishments and individuals researching in the fields of 5G healthcare medical sensors IoT big data and related fields The main objectives of this book are to accumulate state of the art IoT 5G AI and machine learning based approaches for resolving healthcare problems

Computational Photography Rastislav Lukac,2017-12-19 Computational photography refers broadly to imaging techniques that enhance or extend the capabilities of digital photography This new and rapidly developing research field has evolved from computer vision image processing computer graphics and applied optics and numerous commercial products capitalizing on its principles have already appeared in diverse market applications due to the gradual migration of computational algorithms from computers to imaging devices and software Computational Photography Methods and Applications provides a strong fundamental understanding of theory and methods and a foundation upon which to build solutions for many of today s most interesting and challenging computational imaging

problems Elucidating cutting edge advances and applications in digital imaging camera image processing and computational photography with a focus on related research challenges this book Describes single capture image fusion technology for consumer digital cameras Discusses the steps in a camera image processing pipeline such as visual data compression color correction and enhancement denoising demosaicking super resolution reconstruction deblurring and high dynamic range imaging Covers shadow detection for surveillance applications camera driven document rectification bilateral filtering and its applications and painterly rendering of digital images Presents machine learning methods for automatic image colorization and digital face beautification Explores light field acquisition and processing space time light field rendering and dynamic view synthesis with an array of cameras Because of the urgent challenges associated with emerging digital camera applications image processing methods for computational photography are of paramount importance to research and development in the imaging community Presenting the work of leading experts and edited by a renowned authority in digital color imaging and camera image processing this book considers the rapid developments in this area and addresses very particular research and application problems It is ideal as a stand alone professional reference for design and implementation of digital image and video processing tasks and it can also be used to support graduate courses in computer vision digital imaging visual data processing and computer graphics among others

Reconfigurable Computing: Architectures, Tools, and Applications Roger Woods, Katherine Compton, Christos Bourganis, Pedro C. Diniz, 2008-08-29 Coverage in this proceedings volume includes DNA and string processing applications reconfigurable computing hardware and systems image processing run time behavior instruction set extension as well as random number generation and financial computation

Computer Vision in Control Systems-1 Margarita N. Favorskaya, Lakhmi C. Jain, 2014-11-01 This book is focused on the recent advances in computer vision methodologies and technical solutions using conventional and intelligent paradigms The Contributions include Morphological Image Analysis for Computer Vision Applications Methods for Detecting of Structural Changes in Computer Vision Systems Hierarchical Adaptive KL based Transform Algorithms and Applications Automatic Estimation for Parameters of Image Projective Transforms Based on Object invariant Cores A Way of Energy Analysis for Image and Video Sequence Processing Optimal Measurement of Visual Motion Across Spatial and Temporal Scales Scene Analysis Using Morphological Mathematics and Fuzzy Logic Digital Video Stabilization in Static and Dynamic Scenes Implementation of Hadamard Matrices for Image Processing A Generalized Criterion of Efficiency for Telecommunication Systems The book is directed to PhD students professors researchers and software developers working in the areas of digital video processing and computer vision technologies

Computer Vision - ECCV 2018 Vittorio Ferrari, Martial Hebert, Cristian Sminchisescu, Yair Weiss, 2018-10-06 The sixteen volume set comprising the LNCS volumes 11205 11220 constitutes the refereed proceedings of the 15th European Conference on Computer Vision ECCV 2018 held in Munich Germany in September 2018 The 776 revised papers presented were carefully reviewed and selected from 2439

submissions The papers are organized in topical sections on learning for vision computational photography human analysis human sensing stereo and reconstruction optimization matching and recognition video attention and poster sessions

Fringe 2013 Wolfgang Osten,2013-08-15 In continuation of the FRINGE Workshop Series this Proceeding contains all contributions presented at the 7 International Workshop on Advanced Optical Imaging and Metrology The FRINGE Workshop Series is dedicated to the presentation discussion and dissemination of recent results in Optical Imaging and Metrology Topics of particular interest for the 7 Workshop are New methods and tools for the generation acquisition processing and evaluation of data in Optical Imaging and Metrology digital wavefront engineering computational imaging model based reconstruction compressed sensing inverse problems solution Application driven technologies in Optical Imaging and Metrology high resolution adaptive active robust reliable flexible in line real time High dynamic range solutions in Optical Imaging and Metrology from macro to nano Hybrid technologies in Optical Imaging and Metrology hybrid optics sensor and data fusion model based solutions multimodality New optical sensors imaging and measurement systems integrated miniaturized in line real time traceable remote Special emphasis is put on new strategies taking into account the active combination of physical modeling computer aided simulation and experimental data acquisition In particular attention is directed towards new approaches for the extension of existing resolution limits that open the gates to wide scale metrology ranging from macro to nano by considering dynamic changes and using advanced optical imaging and sensor systems

Multimedia and Network Information Systems Kazimierz Choroś,Marek Kopel,Elżbieta Kukla,Andrzej Siemiński,2018-09-04 These proceedings collect papers presented at the 11th International Conference on Multimedia they address hot topics such as virtual and augmented reality identity recognition video summarization intelligent audio processing accessing multilingual information and opinions video games and innovations in Web technologies Accordingly the proceedings provide a cutting edge update on work being pursued in the rapidly evolving field of Multimedia and Internet Information Systems

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