



SUPER-RESOLUTION IMAGING

Edited by
Peyman Milanfar



Super Resolution Imaging Digital Imaging And Computer Vision

Subhasis Chaudhuri

Super Resolution Imaging Digital Imaging And Computer Vision:

Super-Resolution Imaging Peyman Milanfar,2017-12-19 With the exponential increase in computing power and broad proliferation of digital cameras super resolution imaging is poised to become the next killer app The growing interest in this technology has manifested itself in an explosion of literature on the subject Super Resolution Imaging consolidates key recent research contributions from eminent scholars and practitioners in this area and serves as a starting point for exploration into the state of the art in the field It describes the latest in both theoretical and practical aspects of direct relevance to academia and industry providing a base of understanding for future progress Features downloadable tools to supplement material found in the book Recent advances in camera sensor technology have led to an increasingly larger number of pixels being crammed into ever smaller spaces This has resulted in an overall decline in the visual quality of recorded content necessitating improvement of images through the use of post processing Providing a snapshot of the cutting edge in super resolution imaging this book focuses on methods and techniques to improve images and video beyond the capabilities of the sensors that acquired them It covers History and future directions of super resolution imaging Locally adaptive processing methods versus globally optimal methods Modern techniques for motion estimation How to integrate robustness Bayesian statistical approaches Learning based methods Applications in remote sensing and medicine Practical implementations and commercial products based on super resolution The book concludes by concentrating on multidisciplinary applications of super resolution for a variety of fields It covers a wide range of super resolution imaging implementation techniques including variational feature based multi channel learning based locally adaptive and nonparametric methods This versatile book can be used as the basis for short courses for engineers and scientists or as part of graduate level courses in image processing

Super-Resolution Imaging Subhasis Chaudhuri,2001-09-30 Super Resolution Imaging serves as an essential reference for both academicians and practicing engineers It can be used both as a text for advanced courses in imaging and as a desk reference for those working in multimedia electrical engineering computer science and mathematics The first book to cover the new research area of super resolution imaging this text includes work on the following groundbreaking topics Image zooming based on wavelets and generalized interpolation Super resolution from sub pixel shifts Use of blur as a cue Use of warping in super resolution Resolution enhancement using multiple apertures Super resolution from motion data Super resolution from compressed video Limits in super resolution imaging Written by the leading experts in the field Super Resolution Imaging presents a comprehensive analysis of current technology along with new research findings and directions for future work

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

Iterative-Interpolation Super-Resolution

Image Reconstruction Vivek Bannore,2009-03-21 To my wife Mitu Vivek Bannore Preface Preface In many imaging systems under sampling and aliasing occurs frequently leading to degradation of image quality Due to the limited number of sensors available on the digital cameras the quality of images captured is also limited Factors such as optical or atmospheric blur and sensor noise can also contribute further to the degradation of image quality Super Resolution is an image reconstruction technique that enhances a sequence of low resolution images or video frames by increasing the spatial resolution of the images Each of these low resolution images contain only incomplete scene information and are geometrically warped aliased and der sampled Super resolution technique intelligently fuses the incomplete scene information from several consecutive low resolution frames to reconstruct a hi resolution representation of the original scene In the last decade with the advent of new technologies in both civil and military domain more computer vision applications are being developed with a demand for high quality high resolution images In fact the demand for high resolution images is exponentially increasing and the camera manufacturing technology is unable to cope up due to cost efficiency and other practical reasons

Super-Resolution

Imaging Peyman Milanfar,2017-12-19 With the exponential increase in computing power and broad proliferation of digital cameras super resolution imaging is poised to become the next killer app The growing interest in this technology has manifested itself in an explosion of literature on the subject Super Resolution Imaging consolidates key recent research contributions from eminent scholars and practitioners in this area and serves as a starting point for exploration into the state of the art in the field It describes the latest in both theoretical and practical aspects of direct relevance to academia and

industry providing a base of understanding for future progress Features downloadable tools to supplement material found in the book Recent advances in camera sensor technology have led to an increasingly larger number of pixels being crammed into ever smaller spaces This has resulted in an overall decline in the visual quality of recorded content necessitating improvement of images through the use of post processing Providing a snapshot of the cutting edge in super resolution imaging this book focuses on methods and techniques to improve images and video beyond the capabilities of the sensors that acquired them It covers History and future directions of super resolution imaging Locally adaptive processing methods versus globally optimal methods Modern techniques for motion estimation How to integrate robustness Bayesian statistical approaches Learning based methods Applications in remote sensing and medicine Practical implementations and commercial products based on super resolution The book concludes by concentrating on multidisciplinary applications of super resolution for a variety of fields It covers a wide range of super resolution imaging implementation techniques including variational feature based multi channel learning based locally adaptive and nonparametric methods This versatile book can be used as the basis for short courses for engineers and scientists or as part of graduate level courses in image processing

Motion-Free Super-Resolution Subhasis Chaudhuri,Joshi Manjunath,2006-06-20 Motion Free Super Resolution is a compilation of very recent work on various methods of generating super resolution SR images from a set of low resolution images The current literature on this topic deals primarily with the use of motion cues for the purpose of generating SR images These cues have it is shown their advantages and disadvantages In contrast this book shows that cues other than motion can also be used for the same purpose and addresses both the merits and demerits of these new techniques Motion Free Super Resolution supersedes much of the lead author s previous edited volume Super Resolution Imaging and includes an up to date account of the latest research efforts in this fast moving field This sequel also features a style of presentation closer to that of a textbook with an emphasis on teaching and explanation rather than scholarly presentation

Iterative-Interpolation Super-Resolution Image Reconstruction Vivek Bannore,2009-04-08 To my wife Mitu Vivek Bannore Preface Preface In many imaging systems under sampling and aliasing occurs frequently leading to degradation of image quality Due to the limited number of sensors available on the digital cameras the quality of images captured is also limited Factors such as optical or atmospheric blur and sensor noise can also contribute further to the degradation of image quality Super Resolution is an image reconstruction technique that enhances a sequence of low resolution images or video frames by increasing the spatial resolution of the images Each of these low resolution images contain only incomplete scene information and are geometrically warped aliased and der sampled Super resolution technique intelligently fuses the incomplete scene information from several consecutive low resolution frames to reconstruct a hi resolution representation of the original scene In the last decade with the advent of new technologies in both civil and mi tary domain more computer vision applications are being developed with a demand for high quality high resolution images In fact the demand for high

resolution images is exponentially increasing and the camera manufacturing technology is unable to cope up due to cost efficiency and other practical reasons *Innovative research on coronary artery hemodynamics, heart treatment and cardiovascular medicine* Kelvin Kian Loong Wong, Dhanjoo Ghista, Ruizheng Shi, W. J. Zhang, 2023-06-27

Machine Learning in Medical Imaging Xuanang Xu, Zhiming Cui, Islem Rekik, Xi Ouyang, Kaicong Sun, 2024-10-22 This book constitutes the proceedings of the 15th International Workshop on Machine Learning in Medical Imaging MLMI 2023 held in conjunction with MICCAI 2024 Marrakesh Morocco on October 6 2024. The 63 full papers presented in this volume were carefully reviewed and selected from 100 submissions. They focus on major trends and challenges in the above mentioned area aiming to identify new cutting edge techniques and their uses in medical imaging using artificial intelligence AI and machine learning ML.

International Youth Conference on Electronics, Telecommunications and Information Technologies

Elena Velichko, Viktoria Kapralova, Platon Karaseov, Sergey Zavjalov, Pablo Angueira, Sergey Andreev, 2022-01-12 This book presents peer reviewed and selected papers of the International Youth Conference on Electronics Telecommunications and Information Technologies YETI 2021 held in Peter the Great St Petersburg Polytechnic University St Petersburg on April 22 23 2021. For the third time around the conference brings together students and early career scientists serving to disseminate the current trends and advances in electronics telecommunications optical and information technologies. A series of workshops and poster sessions focusing in particular on the theoretical and practical challenges in nanotechnologies photonics signal processing and telecommunications allow to establish contacts between potential partners share new ideas and start new collaborations. The conference is held in an online format thus considerably expanding its geographical reach and offering an even wider scope of discussion.

Applications of Digital Image Processing

, 2006 **Computational Intelligence Methods for Super-Resolution in Image Processing Applications** Anand Deshpande, Vania V. Estrela, Navid Razmjoo, 2021-05-28 This book explores the application of deep learning techniques within a particularly difficult computational type of computer vision CV problem super resolution SR. The authors present and discuss ways to apply computational intelligence CI methods to SR. The volume also explores the possibility of using different kinds of CV techniques to develop and enhance the tools processes related to SR. The application areas covered include biomedical engineering healthcare applications medicine histology and material science. The book will be a valuable reference for anyone concerned with multiple multimodal images especially professionals working in remote sensing nanotechnology and immunology at research institutes healthcare facilities biotechnology institutions agribusiness services veterinary facilities and universities.

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

On Learning and Regularization in Super-Resolution Imaging Muhammad Ali Muhammad Rushdi, 2013 Advances in super resolution imaging have been made by reconstruction interpolation and example based algorithmic techniques drawn from the fields of signal and image processing machine learning biologically inspired computer vision and psychology However the performance of super resolution algorithms has been limited by constraints of sampling frequency sensor dimensions sensor noise focus and motion blurring and alignment between low resolution input data samples In this dissertation we propose several techniques to improve the performance of state of the art super resolution techniques Firstly a concise introduction and literature survey of super resolution imaging research is given Secondly novel dictionary learning techniques for super resolution are presented Thirdly non uniform image super resolution over deformed image domains is approached using patch redundancy as well as resolution independence image models Experimental results are good in visual quality and compare well with other state of the art techniques Future work should explore the extension of the proposed methods to video and stereoscopic imaging

Visual Information Processing ,2000 Visual Communications and Image Processing ,1991 Infrared Imaging Systems ,2001 Sensor Fusion: Architectures, Algorithms, and Applications ,2001 **Medical Imaging** ,1997

Motion-Free Super-Resolution Subhasis Chaudhuri,Joshi Manjunath,2005-07-06 Motion Free Super Resolution is a

compilation of very recent work on various methods of generating super resolution SR images from a set of low resolution images The current literature on this topic deals primarily with the use of motion cues for the purpose of generating SR images These cues have it is shown their advantages and disadvantages In contrast this book shows that cues other than motion can also be used for the same purpose and addresses both the merits and demerits of these new techniques Motion Free Super Resolution supersedes much of the lead author s previous edited volume Super Resolution Imaging and includes an up to date account of the latest research efforts in this fast moving field This sequel also features a style of presentation closer to that of a textbook with an emphasis on teaching and explanation rather than scholarly presentation

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