

# Matlab Toolbox for Multichannel Blind Deconvolution and Demosaicing version 1.0

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February, 2007

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## 1 Introduction

**Note:** *This MBD toolbox performs only multichannel blind deconvolution. In order to obtain a full version that includes superresolution please contact the authors of the toolbox. However, one step towards superresolution is included and this is demosaicing of color images in Bayer pattern.*

Imaging plays a key role in many diverse application areas, such as astronomy, remote sensing, microscopy or tomography, just to name few. Due to imperfections of measuring devices (optical degradations, limited size of CCD sensors) and instability of observed scene (object motion, media turbulence) acquired images are blurred, noisy and may exhibit insufficient spatial and/or temporal resolution.

In order to recover the original image, techniques called blind deconvolution and superresolution remove the blur and increase the resolution, respectively. A necessary condition for the methods to be stable is to have more than one image of the scene (multiframe imaging). Differences between images are necessary to provide new information but they can be almost

# Matlab Tool For Blind Superresolution Version 1

**AN Whitehead**



## **Matlab Tool For Blind Superresolution Version 1:**

**Label-Free Super-Resolution Microscopy** Vasily Astratov, 2019-08-31 This book presents the advances in super resolution microscopy in physics and biomedical optics for nanoscale imaging In the last decade super resolved fluorescence imaging has opened new horizons in improving the resolution of optical microscopes far beyond the classical diffraction limit leading to the Nobel Prize in Chemistry in 2014 This book represents the first comprehensive review of a different type of super resolved microscopy which does not rely on using fluorescent markers Such label free super resolution microscopy enables potentially even broader applications in life sciences and nanoscale imaging but is much more challenging and it is based on different physical concepts and approaches A unique feature of this book is that it combines insights into mechanisms of label free super resolution with a vast range of applications from fast imaging of living cells to inorganic nanostructures This book can be used by researchers in biological and medical physics Due to its logically organizational structure it can be also used as a teaching tool in graduate and upper division undergraduate level courses devoted to super resolved microscopy nanoscale imaging microscopy instrumentation and biomedical imaging

**Computer Vision - ECCV 2022 Workshops** Leonid Karlinsky, Tomer Michaeli, Ko Nishino, 2023-02-17 The 8 volume set comprising the LNCS books 13801 until 13809 constitutes the refereed proceedings of 38 out of the 60 workshops held at the 17th European Conference on Computer Vision ECCV 2022 The conference took place in Tel Aviv Israel during October 23 27 2022 the workshops were held hybrid or online The 367 full papers included in this volume set were carefully reviewed and selected for inclusion in the ECCV 2022 workshop proceedings They were organized in individual parts as follows Part I W01 AI for Space W02 Vision for Art W03 Adversarial Robustness in the Real World W04 Autonomous Vehicle Vision Part II W05 Learning With Limited and Imperfect Data W06 Advances in Image Manipulation Part III W07 Medical Computer Vision W08 Computer Vision for Metaverse W09 Self Supervised Learning What Is Next Part IV W10 Self Supervised Learning for Next Generation Industry Level Autonomous Driving W11 ISIC Skin Image Analysis W12 Cross Modal Human Robot Interaction W13 Text in Everything W14 BioImage Computing W15 Visual Object Oriented Learning Meets Interaction Discovery Representations and Applications W16 AI for Creative Video Editing and Understanding W17 Visual Inductive Priors for Data Efficient Deep Learning W18 Mobile Intelligent Photography and Imaging Part V W19 People Analysis From Face Body and Fashion to 3D Virtual Avatars W20 Safe Artificial Intelligence for Automated Driving W21 Real World Surveillance Applications and Challenges W22 Affective Behavior Analysis In the Wild Part VI W23 Visual Perception for Navigation in Human Environments The JackRabbit Human Body Pose Dataset and Benchmark W24 Distributed Smart Cameras W25 Causality in Vision W26 In Vehicle Sensing and Monitorization W27 Assistive Computer Vision and Robotics W28 Computational Aspectsof Deep Learning Part VII W29 Computer Vision for Civil and Infrastructure Engineering W30 AI Enabled Medical Image Analysis Digital Pathology and Radiology COVID19 W31 Compositional and Multimodal Perception Part VIII W32

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**Sparse Image and Signal Processing** Jean-Luc Starck,Fionn Murtagh,Jalal Fadili,2015-10-14 Presents state of the art sparse and multiscale image and signal processing with applications in astronomy biology MRI media and forensics

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**MATLAB Mapping Toolbox** MathWorks, Inc,1997 **MATLAB. Partial Differential Equation Toolbox.**

**Computation, Visualization, Programming. User's Guide Version 1** ,1995 MATLAB Fuzzy Logic Toolbox J. S. Roger Jang,Ned Gully,MathWorks, Inc,1997 *MATLAB Web Server* ,2001 **MATLAB** ,2005 **MATLAB.** ,1999 **MATLAB**

**Signal Processing Toolbox, User's Guide** ,1996 *Image Processing Toolbox* ,1999 **American Law Reports** ,2005

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