Matlab Toolbox for Multichannel Blind Deconvolution and Demosaicing version 1.0

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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

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