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fast MBD - MATLAB code for fast multichannel blind (or nonblind) deconvolution with possible superresolution;
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interesting examples and possible live demo of our image restoration MATLAB tool. The discussion will be self-content and therefore no prior knowledge is necessary. A real-data example of superresolution and blind deconvolution using our MATLAB tool is shown below. 2. Any image fusion methodology consists of two basic stages: image registration, which brings the input images to spatial ...

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A custom MATLAB script was developed to automatically identify basal body and basal foot pairs, to measure the orientation of each pair relative to the image axis, and to calculate the norm (vector length) of the average direction for all pairs of the entire cell to determine the overall cilia alignment score (1, full alignment; 0, no alignment) (Fig. 7, B and C).

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tool. In particular, much of this communication takes place at the nanoscale level and requires in vivo super-resolution microscopy. We applied adaptive optics to correcting sample-induced optical aberrations and optimized image acquisition and reconstruction to combat sample motion, which allowed us to adapt super-resolution structured illumination microscopy to in vivo imaging in the brains ...

[Software :: Peyman Milanfar](#)

downscaling kernel with antialiasing– MATLAB's default imresize command). Real LR images, ... (non-blind) SR

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methods cannot make any use of an image-specific SR kernel at test time (even if known/provided), since it is different from the fixed downscaling kernel they trained on. These methods thus produce poor SR results in realistic scenarios – see Fig. 1a (in contrast to their ...

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[Sparse Signal Reconstruction Using Blind Super-Resolution](#)

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...

Prior knowledge plays an important role in the process of image super-resolution reconstruction, which can constrain the solution space efficiently. In this paper, we utilized the fact that clear image exhibits stronger self-similarity property than other degraded version to present a new prior called maximizing nonlocal self-similarity for single image super-resolution.

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research was provided by Czech Ministry of Education under the project 1M0572 (Research Center DAR), the Grant Agency of the Czech Republic under the project 202/05/0242, by the bilateral project 2004CZ0009 and by the projects TEC2004-00834, TEC2005-24739-E and P1040765. THE COMPUTER JOURNAL, 2007 ...

[Blind Super-Resolution Kernel Estimation using an Internal ...](#)

Blind image deconvolution (BID) is an interesting and challenging problem which finds application in areas like astronomical imaging, medical imaging, and computational photography . In general, the degraded image y can be approximately modeled as [2] (1) $y = H x + n$ where x and n

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are the original image and noise, respectively, and H is the convolution matrix formed from the blur kernel h .

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Items highlighted in red are still being investigated by the S-FIVE Project Team; please feel free to send in any updates or comments you may have.. Commercial FIVE hardware and software tools

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[Improving SPLIT-STED super-resolution imaging with tunable ...](#)

A. Jost, E. Tolstik, P. Feldmann, K. Wicker, A. Sentenac, R. Heintzmann, Optical sectioning and high resolution in single-slice structured illumination microscopy by thick slice blind-SIM reconstruction. PLoS One 10(7), 1–10 (2015) CrossRef Google Scholar

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Confocal microscopy is especially well suited for examining thick specimens such as embryos or tissues, while widefield deconvolution processing has proven to be a powerful tool for

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imaging specimens requiring extremely low light levels. These tools can even be combined to reduce the noise in images acquired on a confocal microscope. However, a majority of the deconvolution experiments ...

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The findings led to the first superresolution images with a low-cost epifluorescence microscope and co-application of STED and SMLM on the same biological sample. Since 2018, Kirti has been working at the University of Cambridge. Firstly, in the group of David Rowitch, he contributed to the development of a high-content imaging pipeline to quantify single-cell gene expression. Presently, in ...

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[:: iMRI :: Investigative Magnetic Resonance Imaging](#)

Tali Ilovitsh et al. describe a new method, acoustical structured illumination, for generating super-resolution ultrasound images. The method applies principles from structured illumination ...

[Image sharpening by grid warping | Laboratory of ...](#)

All of the calculations are carried out using MATLAB R2016a on a server with Intel Xeon E3-1505M v5 2.8 GHz processor, and 64 GB memory. According to Section 3, we first divide the entire spectra evenly into four sub-groups and reconstruct one reference spectral channel in each sub-group. At this

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point, the number of snapshots L is set to 32. Figures 5(a) and 5(b) show an original reference ...

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Due to the sparse distribution of reflectors in space, wireless channels are commonly sparse. Thus, utilizing the sparsity of channels in the delay-Doppler domain, a channel estimation method based on compressed sensing (CS) theory can reduce the number of pilots. However, because of discrete truncation in the time domain and limited bandwidth, the time delay and frequency shift of non-integer ...

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Open the rainSTORM.m file from within MATLAB and run ...
A Gaussian fit of the plot profile using the curve fitting tool in ImageJ. The standard deviation, d , was multiplied by 2.35 to get a FWHM measurement of 43.2 nm. Click here to view larger figure. Figure 5. Mislocalized Actin Filaments. (A) Diffraction-limited actin filament. 160 nm pixels. (B) STORM image of actin filament shown in (A ...

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