

Code For Single Image Super Resolution

1 fast single image super-resolution using a new ... - a. model of image formation in the single image sr problem, the observed I_r image is modeled as a noisy version of the blurred and decimated I_h image to be estimated as follows, $y = shx + n$ (1) where the vector $y \in \mathbb{R}^{n \times 1}$ ($n = m \times l \times l$) denotes the I_r observed image and $x \in \mathbb{R}^{h \times 1}$ ($h = m \times h \times h$) is the vectorized I_h image to be estimated, with n ...

single image haze removal using dark channel prior - single image haze removal using dark channel prior kaiming he¹ department of information engineering ... haze removal using a single image. (a) input haze image. (b) image after haze removal by our approach. (c) our recovered ... image is applied to extrapolate the solution to the whole

single-image depth perception in the wild - arxiv - single-image depth perception in the wild weifeng chen zhao fu dawei yang jia deng university of michigan, ann arbor {wfchen,zhaofu,ydawei,jiadeng}@umich abstract this paper studies single-image depth perception in the wild, i.e., recovering depth from a single image taken in unconstrained settings. we introduce a new dataset

single-image vignetting correction - eecis.udel - single-image vignetting correction yuanjie zheng¹ shanghai jiaotong university stephen lin microsoft research asia sing bing kang microsoft research abstract in this paper, we propose a method for determining the vignetting function given only a single image. our method is designed to handle both textured and untextured regions

super-resolution from a single image - super-resolution from a single image daniel glasner shai bagon michal irani dept. of computer science and applied mathematics the weizmann institute of science rehovot 76100, israel ... a single image (averaged over hundreds of natural images¹ see text for more details). (a) the percent of image patches for which ...

image super-resolution via sparse representation - 1 image super-resolution via sparse representation jianchao yang, student member, ieee, john wright, student member, ieee thomas huang, life fellow, ieee and yi ma, senior member, ieee abstract¹“this paper presents a new approach to single-image superresolution, based on sparse signal representation. research

depth map prediction from a single image using a multi ... - depth map prediction from a single image using a multi-scale deep network david eigen deigen@cs.nyu christian puhrsch cpuhrsch@nyu rob fergus fergus@cs.nyu dept. of computer science, courant institute, new york university abstract predicting depth is an essential component in understanding the 3d geometry of a scene.

fast single image super-resolution via self-example ... - fast single image super-resolution via self-example learning and sparse representation zhiliang zhu, member, ieee, fangda guo, hai yu and chen chen, student member, ieee abstract¹“in this paper, we propose a novel algorithm for fast single image super-resolution based on self-example learning and sparse representation.

read barcodes & qr-codes from pdfs, scanned documents and ... - zbar is the industry standard when it comes to reading barcodes and qr codes from a variety of image file formats, such as png, jpeg, and tiff. it can help in decoding almost all types of barcode symbols such as ean 13, ean 8, code 128, code 39 etc.

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real-time single image and video super-resolution using an ... - accuracy and computational performance for single image super-resolution. in these methods, the low resolution (lr) input image is upscaled to the high resolution (hr) space using a single $\tilde{\mathcal{A}}$ -filter, commonly bicubic interpolation, before reconstruction. this means that the super-resolution (sr) operation is performed in hr space. we demonstrate that

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