Supplementary Materials

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I. Set18 dataset

Fig. 1: The test images of Set18.
II. Visual comparison of deblurring in the presence of AWGN with known noise strength

Fig. 2: Visual comparison of noise-nonblind deblurring results on one image of Levin et al.’s dataset in the presence of AWGN.

Fig. 3: Visual comparison of noise-nonblind deblurring results on one image of Sun et al.’s dataset in the presence of AWGN.
Fig. 4: Visual comparison of noise-nonblind deblurring results on one image of Sun et al.’s dataset in the presence of AWGN.

Fig. 5: Visual comparison of noise-nonblind deblurring results on image 'Harbour' in the presence of AWGN.
III. Visual comparison of deblurring in the presence of AWGN with unknown noise strength

Fig. 6: Visual comparison of noise-blind deblurring results on image ‘Bridge’ in the presence of AWGN.

Fig. 7: Visual comparison of noise-nonblind deblurring results on one image of Sun et al.’s dataset in the presence of AWGN.

Fig. 8: Visual comparison of noise-blind deblurring results on image ‘Starfish’ in the presence of AWGN.

Fig. 9: Visual comparison of noise-blind deblurring results on one image of Levin et al.’s dataset in the presence of AWGN.
IV. VISUAL COMPARISON OF DEBLURRING IN THE PRESENCE OF POISSON NOISE

Fig. 10: Visual comparison of deblurring results on image ‘Cameraman’ in the presence of Poisson noise

Fig. 11: Visual comparison of deblurring results on image ‘Tank’ in the presence of Poisson noise

V. VISUAL COMPARISON OF DEBLURRING IN THE PRESENCE OF KERNEL UNCERTAINTY

Fig. 12: Visual comparison of deblurring results on image ‘Goldhill’ in the presence of kernel error. The first column contains ground truth kernel (top) and estimated kernel from Pan et al. (bottom).

Fig. 13: Visual comparison of deblurring results on image ‘House’ in the presence of kernel error. The first column contains ground truth kernel (top) and estimated kernel from Perrone and Favaro (bottom).
VI. Visual inspection of the cases that challenge our method

Fig. 14: Illustration of a less-successful result from the proposed method and the visual comparison to other methods in the presence of AWGN.

Fig. 15: Illustration of a less-successful result from the proposed method and the visual comparison to other methods in the presence of AWGN.

Fig. 16: Illustration of a less-successful result from the proposed method and the visual comparison to other methods in the presence of Poisson noise.