Supplementary Materials

CONTENTS

I	Set18 dataset	1
II	Visual comparison of deblurring in the presence of AWGN with known noise strength	2
ш	Visual comparison of deblurring in the presence of AWGN with unknown noise strength	4
IV	Visual comparison of deblurring in the presence of Poisson noise	5
V	Visual comparison of deblurring in the presence of kernel uncertainty	5
VI	Visual inspection of the cases that challenge our method	6

I. Set18 dataset





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



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.