Multi-PIE Frontal Dataset

Evaluations

TABLE I: Multi-PIE Frontal Dataset

	Bicubic	Liu07 [24]	Ma10 [30]	Yang10 [46]	Yang13 [43]	Dong15 [4]	Gu15 [8]	Finetuned [4]	Proposed
PSNR	32.427	30.128	30.928	33.535	31.593	33.891	34.342	34.102	35.165
SSIM	0.883	0.818	0.848	0.896	0.855	0.901	0.908	0.904	0.915
FSIM	0.912	0.884	0.898	0.931	0.923	0.932	0.938	0.935	0.942
GMSD	0.066	0.098	0.086	0.052	0.064	0.049	0.043	0.047	0.040

Quantitative evaluations on Multi-PIE frontal dataset.

In this file we show numerical and visual evaluations on Multi-PIE frontal dataset. We involve Gu15 [8] for comparisons which is the most recent generic image SR method. The numerical evaluation is shown in Table I and visual evaluation is shown from Fig. 1 to Fig. 5.

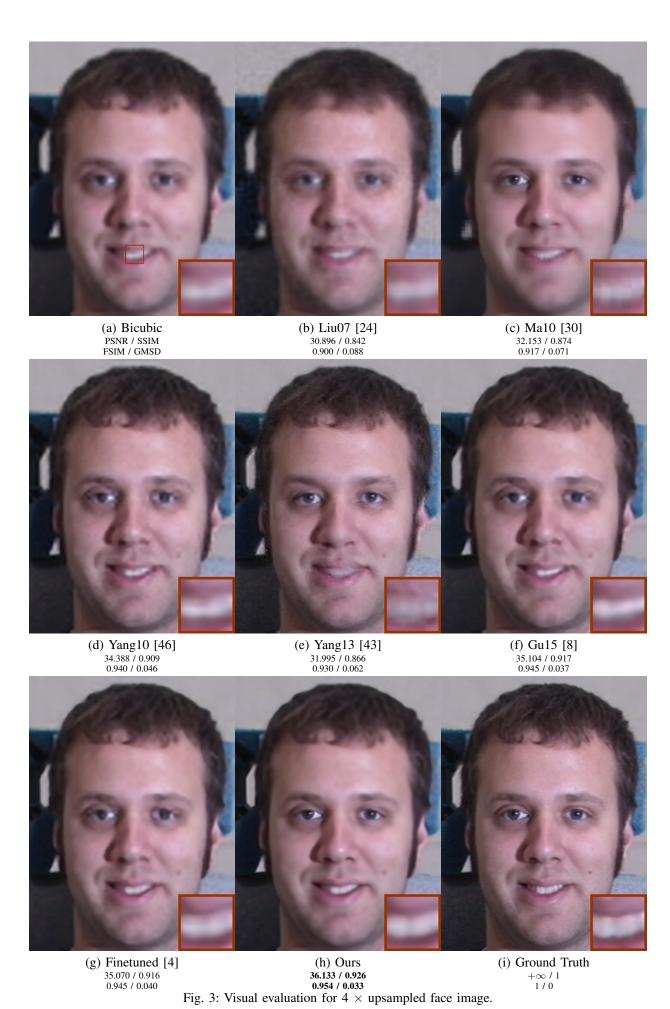
1

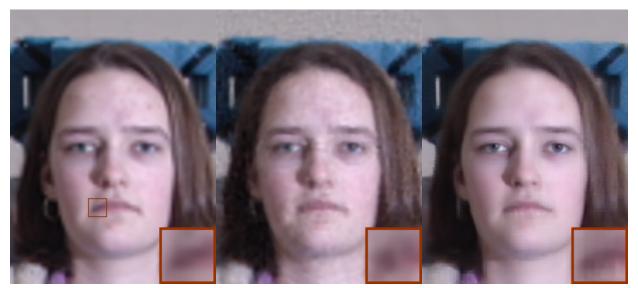


Fig. 1: Visual evaluation for $4 \times$ upsampled face image.



Fig. 2: Visual evaluation for $4 \times$ upsampled face image.

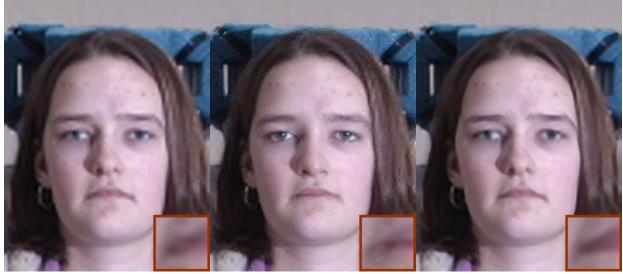




(a) Bicubic PSNR / SSIM FSIM / GMSD

(b) Liu07 [24] 29.561 / 0.820 0.886 / 0.108

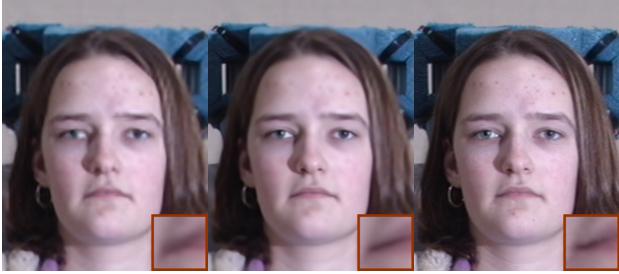
(c) Ma10 [30] 30.054 / 0.852 0.896 / 0.102



(d) Yang10 [46] 33.621 / 0.909 0.934 / 0.058

(e) Yang13 [43] 31.654 / 0.872 0.925 / 0.065

(f) Gu15 [8] 34.151 / 0.918 0.937 / 0.053



(g) Finetuned [4] 34.101 / 0.916 0.939 / 0.054

(h) Ours 35.326 / 0.928 0.950 / 0.047

(i) Ground Truth $+\infty / 1$ 1 / 0

Fig. 4: Visual evaluation for $4 \times \text{upsampled}$ face image.



(a) Bicubic PSNR / SSIM FSIM / GMSD

(b) Liu07 [24] 30.760 / 0.816 0.880 / 0.094

(c) Ma10 [30] 31.741 / 0.845 0.893 / 0.079



(d) Yang10 [46] 34.396 / 0.893 0.928 / 0.048

(e) Yang13 [43] 31.132 / 0.839 0.912 / 0.077

(f) Gu15 [8] 35.254 / 0.904 0.935 / 0.038



(g) Finetuned [4] 35.022 / 0.901 0.933 / 0.043

(i) Ground Truth $+\infty / 1$ 1 / 0

(h) Ours
35.931 / 0.913
0.944 / 0.035

Fig. 5: Visual evaluation for 4 × upsampled face image.