

PubFig Dataset

Evaluations

TABLE I: PubFig Dataset

	Bicubic	Liu07 [24]	Ma10 [30]	Yang10 [46]	Yang13 [43]	Dong15 [4]	Gu15 [8]	Finetuned [4]	Proposed
PSNR	33.967	24.593	29.690	35.137	32.836	35.454	35.750	35.640	37.551
SSIM	0.898	0.721	0.831	0.910	0.857	0.914	0.923	0.915	0.940
FSIM	0.918	0.816	0.881	0.936	0.925	0.937	0.946	0.940	0.954
GMSD	0.059	0.167	0.106	0.044	0.057	0.041	0.038	0.040	0.031

Quantitative evaluations on PubFig dataset.

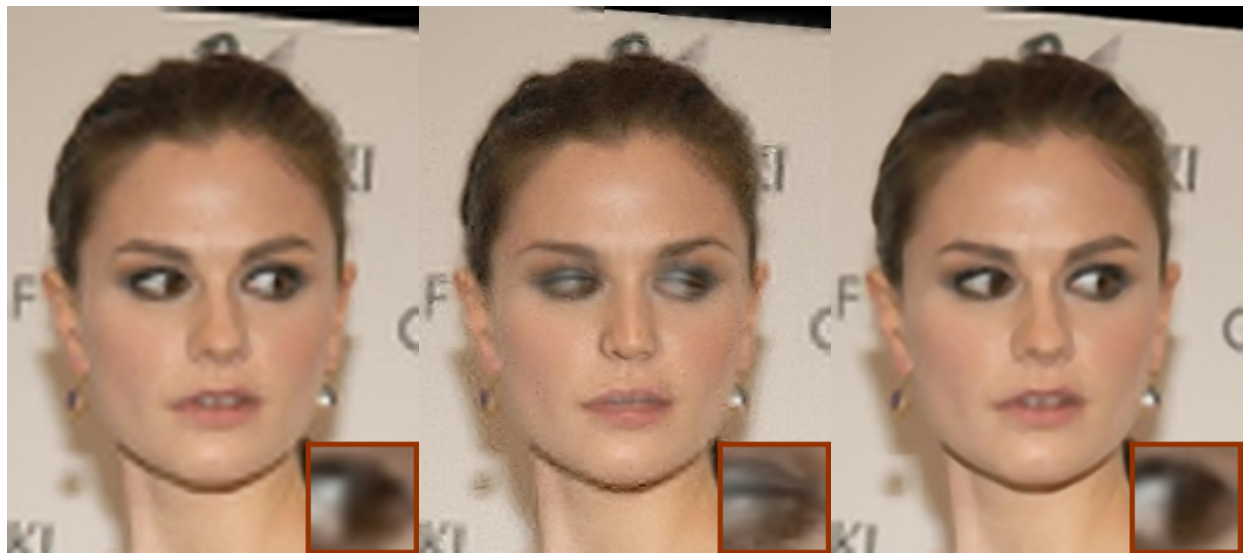
In this file we show numerical and visual evaluations on PubFig dataset. We involve Gu15 [8] for comparison which is the most recent generic image SR method. The numerical evaluation is shown in Table I and visual evaluation is shown from Fig. 1 to Fig. 5.



(a) Bicubic
PSNR / SSIM
FSIM / GMSD

(b) Liu07 [24]
28.193 / 0.815
0.861 / 0.140

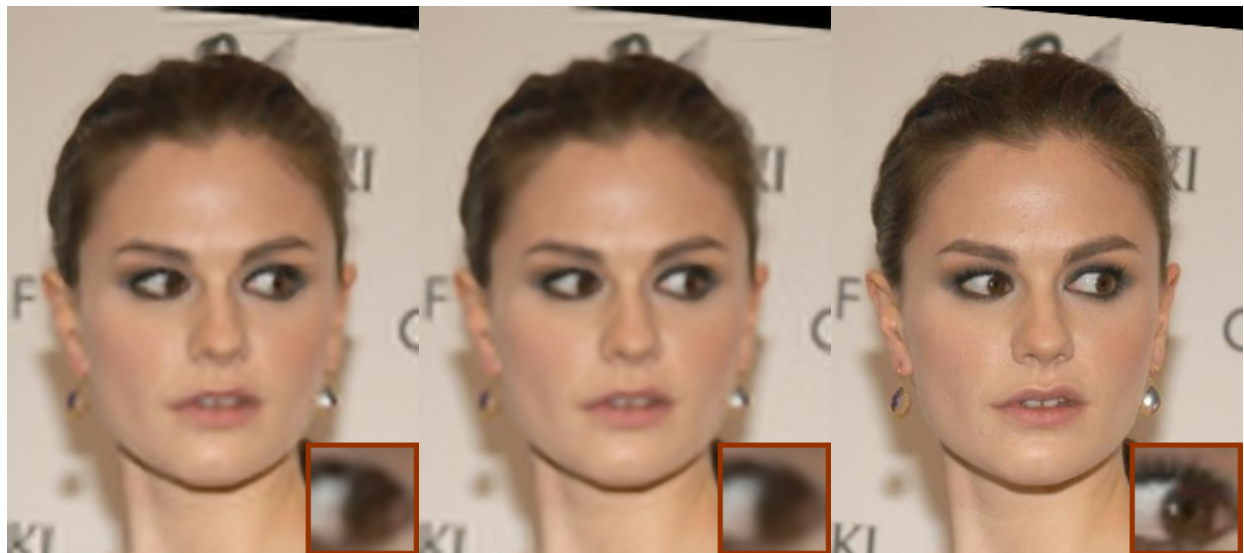
(c) Ma10 [30]
25.845 / 0.816
0.853 / 0.158



(d) Yang10 [46]
31.627 / 0.923
0.928 / 0.074

(e) Yang13 [43]
29.973 / 0.866
0.903 / 0.091

(f) Gu15 [8]
33.135 / 0.935
0.943 / 0.051

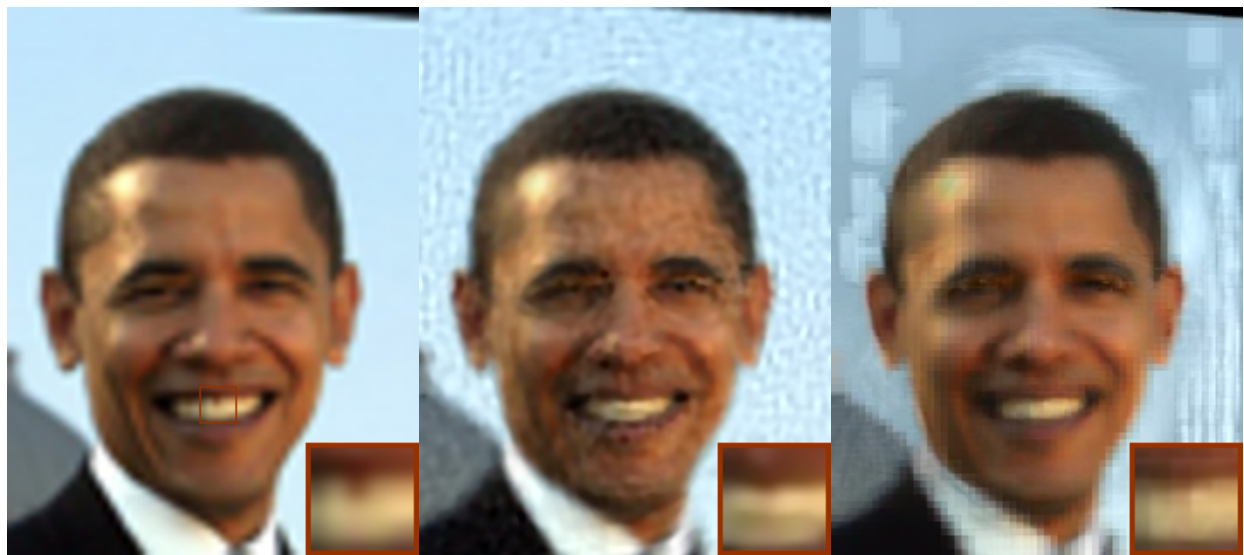


(g) Finetuned [4]
33.058 / 0.932
0.938 / 0.061

(h) Ours
34.203 / 0.935
0.944 / 0.050

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

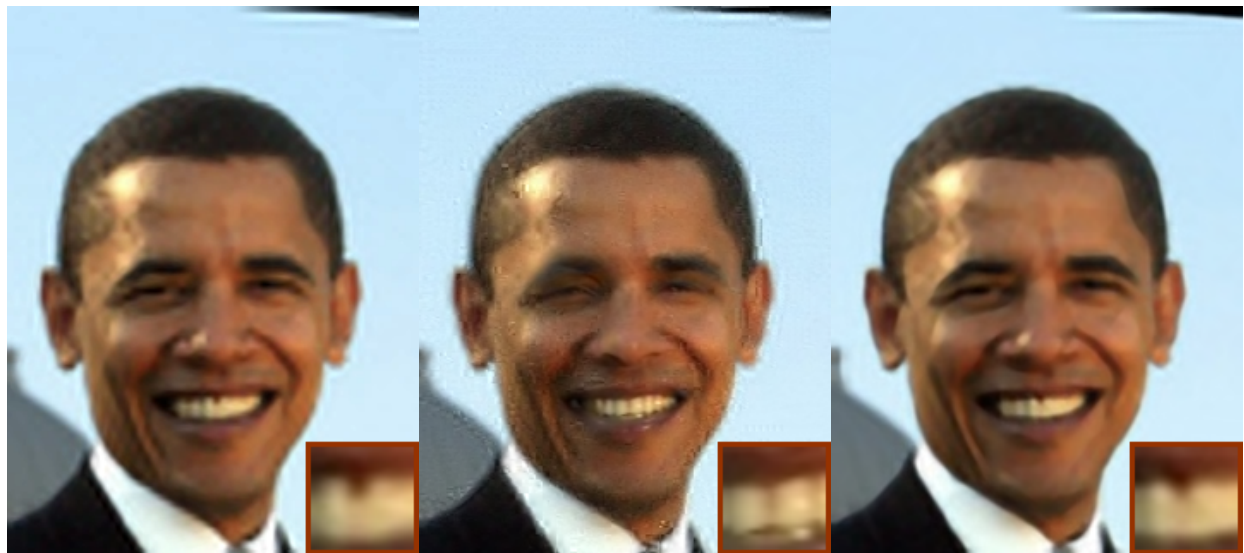
Fig. 1: Visual evaluation for $4 \times$ upsampled face image.



(a) Bicubic
PSNR / SSIM
FSIM / GMSD

(b) Liu07 [24]
27.382 / 0.779
0.859 / 0.179

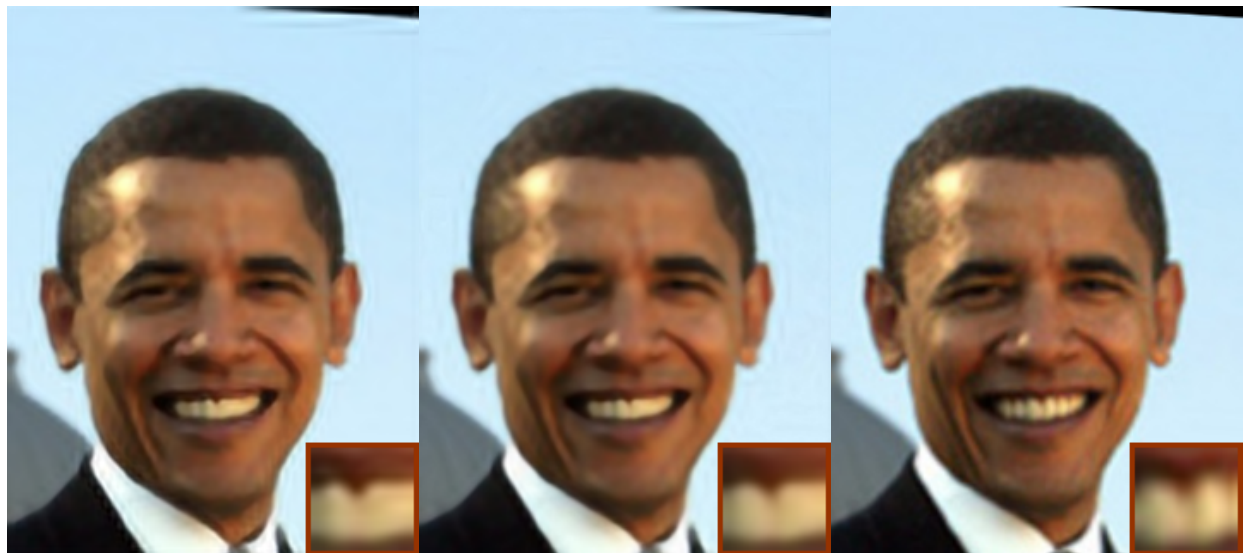
(c) Ma10 [30]
19.591 / 0.760
0.810 / 0.213



(d) Yang10 [46]
33.475 / 0.964
0.965 / 0.061

(e) Yang13 [43]
30.027 / 0.877
0.914 / 0.087

(f) Gu15 [8]
34.167 / 0.970
0.965 / 0.045



(g) Finetuned [4]
34.163 / 0.962
0.958 / 0.050

(h) Ours
36.437 / 0.968
0.971 / 0.042

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

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



(a) Bicubic
PSNR / SSIM
FSIM / GMSD

(b) Liu07 [24]
32.201 / 0.885
0.932 / 0.083

(c) Ma10 [30]
30.541 / 0.879
0.923 / 0.082



(d) Yang10 [46]
39.093 / 0.974
0.982 / 0.013

(e) Yang13 [43]
33.169 / 0.897
0.940 / 0.056

(f) Gu15 [8]
40.700 / 0.976
0.978 / 0.019



(g) Finetuned [4]
40.578 / 0.978
0.979 / 0.014

(h) Ours
41.651 / 0.980
0.983 / 0.013

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

Fig. 3: Visual evaluation for $4 \times$ upscaled face image.



(a) Bicubic
PSNR / SSIM
FSIM / GMSD

(b) Liu07 [24]
26.238 / 0.729
0.836 / 0.165

(c) Ma10 [30]
23.527 / 0.768
0.846 / 0.157



(d) Yang10 [46]
30.575 / 0.894
0.919 / 0.090

(e) Yang13 [43]
28.227 / 0.833
0.891 / 0.105

(f) Gu15 [8]
32.707 / 0.914
0.939 / 0.061



(g) Finetuned [4]
32.186 / 0.913
0.931 / 0.066

(h) Ours
33.328 / 0.920
0.940 / 0.057

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

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

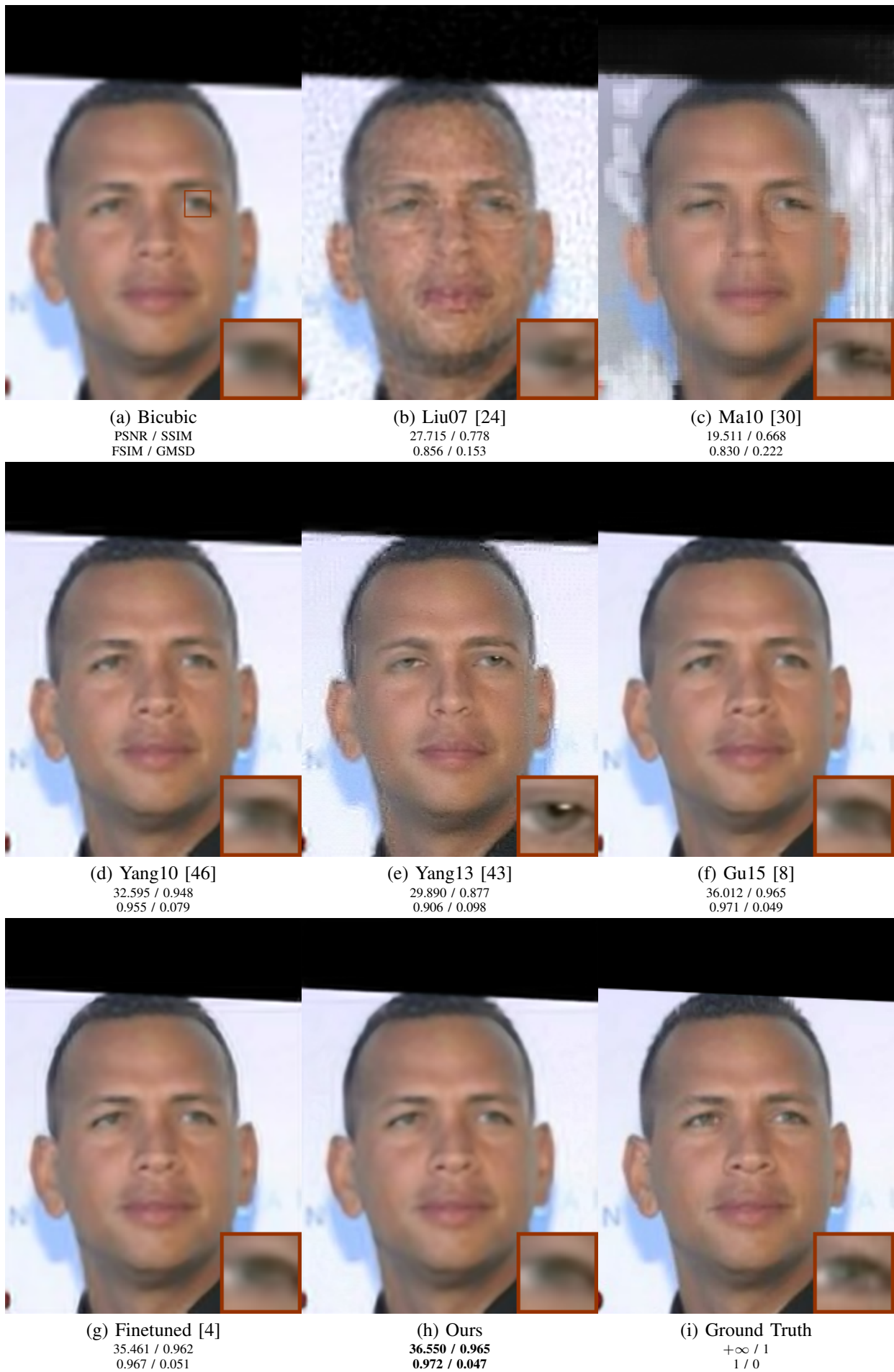


Fig. 5: Visual evaluation for $4 \times$ upsampled face image.