Figure 1:
(a)clean image and PSF;
(b)blurred image, BSNR = 20 ;
(c)ForWaRD result, ISNR = 3.62;
(d)FTVd result, ISNR =6.72;
(e) L0-ABS result, ISNR = 6.99;
(f)SURE-LET result, ISNR=-0.46;
(g) PIEIAS result, ISNR= 8.76;
(h) BM3DDEB result, ISNR = 8.96;
(i) Our result, ISNR = 9.53.

1

Figure 2:
(a)clean image and PSF;
(b)blurred image, BSNR = 30 ;
(c)ForWaRD result, ISNR = 11.45;
(d)FTVd result, ISNR =16.35;
(e) L0-ABS result, ISNR = 14.07;
(f)SURE-LET result, ISNR=0.7;
(g) PIEIAS result, ISNR= 16.46;
(h) BM3DDEB result, ISNR = 17.65;
(i) Our result, ISNR = 18.31.

2

Figure 3:
(a)clean image and PSF;
(b)blurred image, BSNR = 25 ;
(c)ForWaRD result, ISNR = 4.53;
(d)FTVd result, ISNR =8.08;
(e) L0-ABS result, ISNR = 7.47;
(f)SURE-LET result, ISNR=2.95;
(g) PIEIAS result, ISNR= 8.64;
(h) BM3DDEB result, ISNR = 8.71;
(i) Our result, ISNR = 9.52.

3

Figure 4:
(a)clean image and PSF;
(b)blurred image, BSNR = 25 ;
(c)ForWaRD result, ISNR = 9.26;
(d)FTVd result, ISNR =12.48;
(e) L0-ABS result, ISNR = 12.15;
(f)SURE-LET result, ISNR=8.23;
(g) PIEIAS result, ISNR= 13.06;
(h) BM3DDEB result, ISNR = 13.42;
(i) Our result, ISNR = 14.23.

4
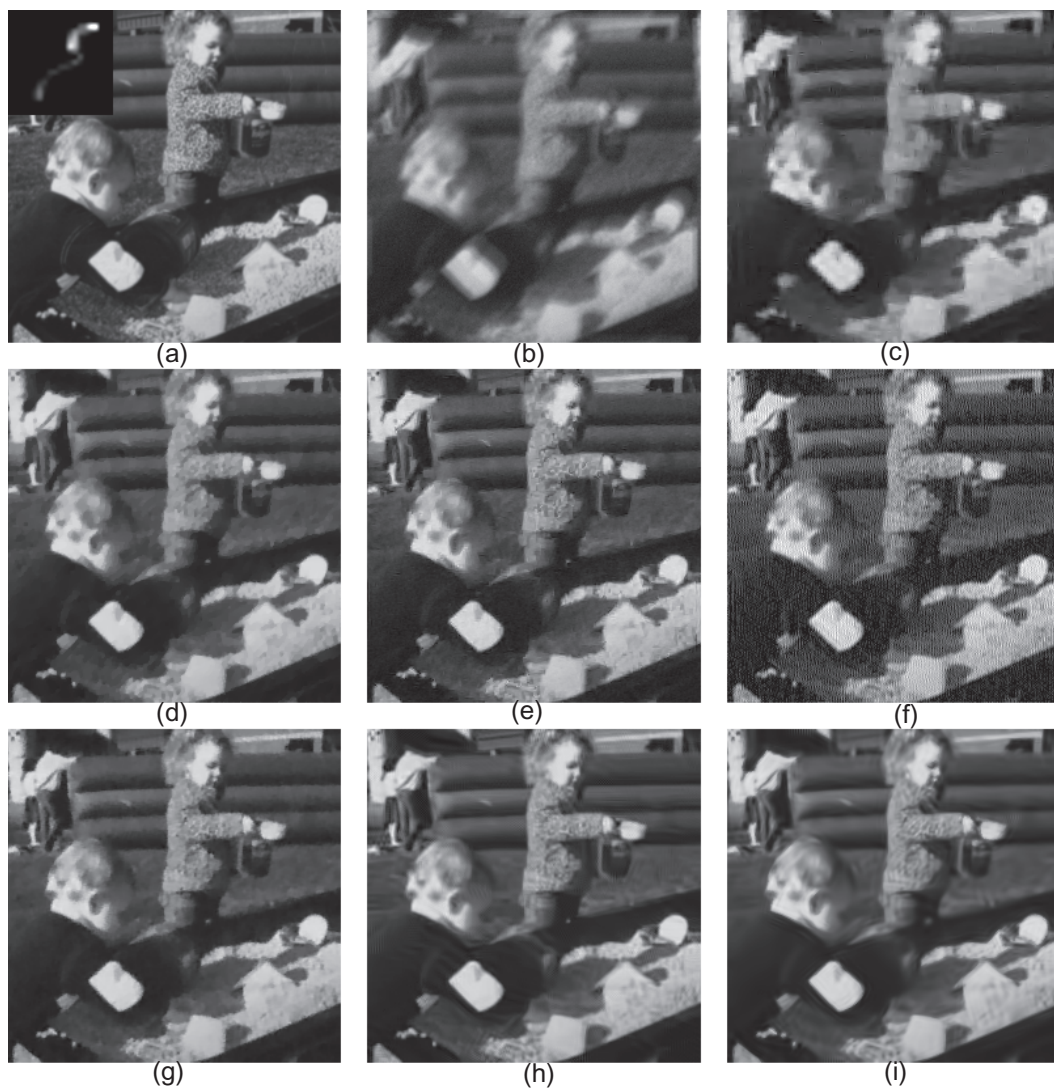
Figure 5:
(a)clean image and PSF;
(b)blurred image, BSNR = 25 ;
(c)ForWaRD result, ISNR = 10.67;
(d)FTVd result, ISNR =15.25;
(e) L0-ABS result, ISNR = 14.52;
(f)SURE-LET result, ISNR=4.53;
(g) PIEIAS result, ISNR= 16.11;
(h) BM3DDEB result, ISNR = 15.98;
(i) Our result, ISNR = 16.37.

5

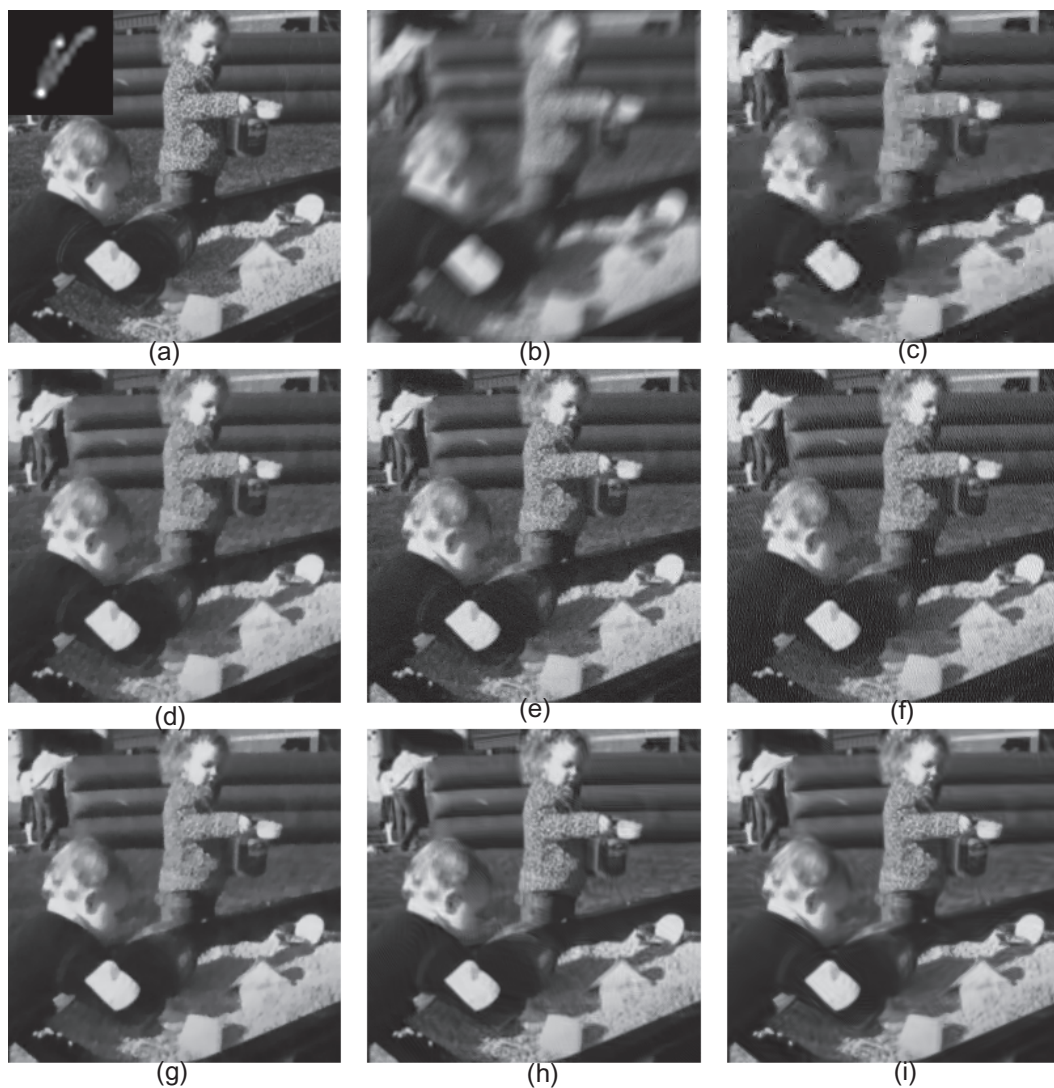Figure 6:
(a)clean image and PSF;
(b)blurred image, BSNR = 35 ;
(c)ForWaRD result, ISNR = 8.10;
(d)FTVd result, ISNR =13.03;
(e) L0-ABS result, ISNR = 11.65;
(f)SURE-LET result, ISNR=6.11;
(g) PIEIAS result, ISNR= 13.32;
(h) BM3DDEB result, ISNR = 13.51;
(i) Our result, ISNR = 13.96.

6

Figure 7:
(a)clean image and PSF;
(b)blurred image, BSNR = 30 ;
(c)ForWaRD result, ISNR = 9.54;
(d)FTVd result, ISNR =12.28;
(e) L0-ABS result, ISNR = 9.86;
(f)SURE-LET result, ISNR=8.20;
(g) PIEIAS result, ISNR= 12.56;
(h) BM3DDEB result, ISNR = 12.51;
(i) Our result, ISNR = 12.77.
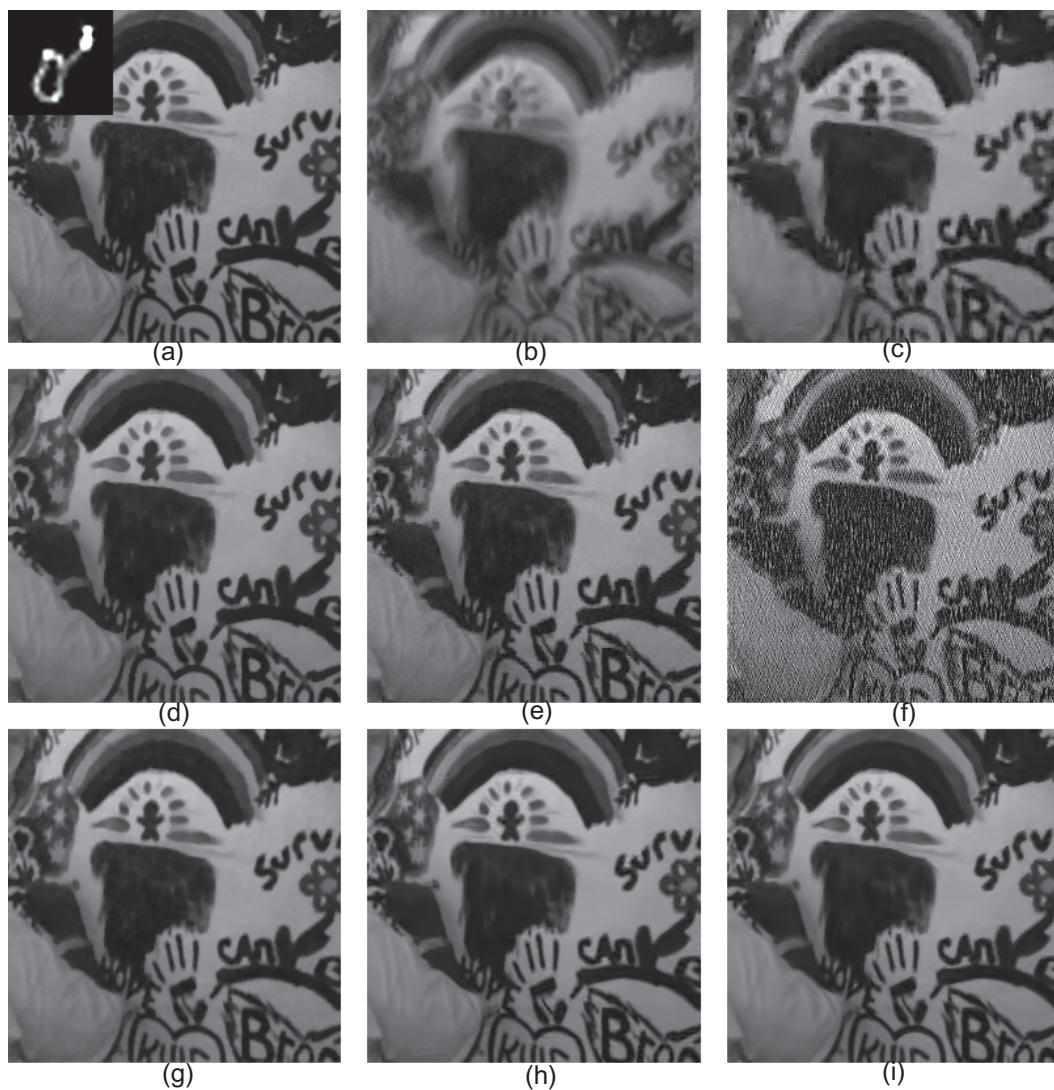
Figure 8:
(a)clean image and PSF;
(b)blurred image, BSNR = 25 ;
(c)ForWaRD result, ISNR = 9.54;
(d)FTVd result, ISNR =15.94;
(e) L0-ABS result, ISNR = 14.44;
(f)SURE-LET result, ISNR= -3.80 ;
(g) PIEIAS result, ISNR= 16.63;
(h) BM3DDEB result, ISNR = 16.71;
(i) Our result, ISNR = 16.89.

8

(a) Original image and PSF

(b) Blurred image, BSNR = 30

(c) BM3DDEB result,ISNR = 9.62

(d) Our result, ISNR = 10.28

Figure 9:

(a) Original image and PSF

(b) Blurred image, BSNR = 25

(c) BM3DDEB result,ISNR = 9.09

(d) Our result, ISNR = 9.25

Figure 10:

(a) Original image and PSF

(b) Blurred image, BSNR = 30

(c) BM3DDEB result,ISNR = 13.36

(d) Our result, ISNR = 13.69

Figure 11:
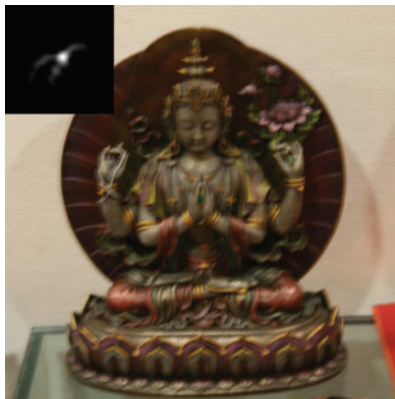
(a) Original image and PSF

(b) Blurred image, BSNR = 25

(c) BM3DDEB result,ISNR = 11.84

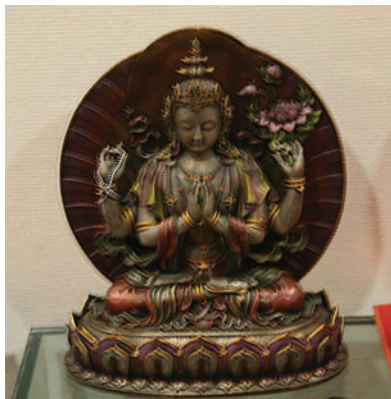(d) Our result, ISNR = 12.60

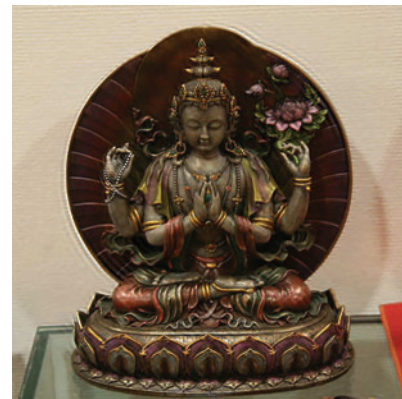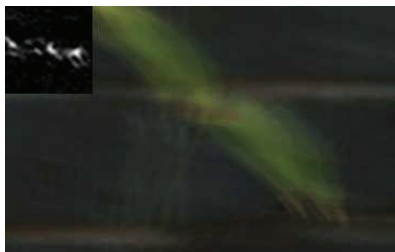Figure 12:

(a)   (b)   (c)

Figure 13: (a) The input blurred image and the kernel is estimated from the blurred image using [Jia et al. 2010]. (b) The deconvolution result is achieved from [Jia et al. 2010]. (c) our non-blind deconvolution result is computed from the blurred image only. The kernel is estimated by [Jia et al. 2010]

Jia et al. 2010 : Li Xu, J.Jia: Two-phase kernel estimation for robust motion deblurring, ECCV, 2010, 157-170.

(a)   (b)   (c)

Figure 14: (a) The input blurred image and the kernel is estimated from the blurred image using [Jia et al. 2010]. (b) The deconvolution result is achieved from [Jia et al. 2010]. (c) our non-blind deconvolution result is computed from the blurred image only. The kernel is estimated by [Jia et al. 2010].

Jia et al. 2010 : Li Xu, J.Jia: Two-phase kernel estimation for robust motion deblurring, ECCV, 2010, 157-170.