TABLE I: Comparison robustness performances among different data corruption in the lung segmentation task on JSRT dataset using UNet [25] as baseline. Dice is utilized as the evaluation metric.

Corruption	UNet —	UNet (+ VAE)	UNet (+Ours)	SWAE-UNet	SWAE-UNet (+Ours)
Ori.	94.18 ± 0.2 -	95.43 ± 0.2 -	95.41 ± 0.1 -	95.07 ± 0.1 -	96.56 ± 0.2 –
Gauss. Noise	$74.02\pm0.4\downarrow$	75.70 $\pm$ 0.2 $\downarrow$	$94.96\pm0.1\downarrow$	$86.26\pm0.2\downarrow$	95.30 $\pm$ 0.1 $\downarrow$
Shot Noise	$65.85\pm0.1\downarrow$	74.14 $\pm$ 0.3 $\downarrow$	94.53 $\pm$ 0.3 $\downarrow$	$78.52\pm0.1\downarrow$	$94.50\pm0.3\downarrow$
Impulse Noise	72.78 $\pm$ 0.2 $\downarrow$	$66.80\pm0.1\downarrow$	95.01 $\pm$ 0.1 $\downarrow$	87.21 $\pm$ 0.5 $\downarrow$	$94.81\pm0.3\downarrow$
Speckle Noise	72.12 $\pm$ 0.4 $\downarrow$	$74.34 \pm 0.3 \downarrow$	93.78 $\pm$ 0.3 $\downarrow$	82.44 $\pm$ 0.3 $\downarrow$	94.67 $\pm$ 0.2 $\downarrow$
Poisson Noise	76.33 $\pm$ 0.5 $\downarrow$	75.89 $\pm$ 0.1 $\downarrow$	95.02 $\pm$ 0.2 $\downarrow$	87.11 $\pm$ 0.1 $\downarrow$	94.83 $\pm$ 0.5 $\downarrow$
Dropout	77.50 $\pm$ 0.3 $\downarrow$	$78.56\pm0.4\downarrow$	$94.60\pm0.1\downarrow$	74.63 $\pm$ 0.2 $\downarrow$	$94.83\pm0.2\downarrow$
Gauss. Blur	93.38 $\pm$ 0.1 $\downarrow$	87.54 $\pm$ 0.1 $\downarrow$	$95.26\pm0.3\downarrow$	92.76 $\pm$ 0.4 $\downarrow$	96.03 $\pm$ 0.2 $\downarrow$
Glass Blur	$94.13\pm0.2\downarrow$	$86.58\pm0.3\downarrow$	$94.86\pm0.5\downarrow$	$93.76\pm0.2\downarrow$	96.07 $\pm$ 0.4 $\downarrow$
Defocus Blur	92.89 $\pm$ 0.3 $\downarrow$	$95.44 \pm 0.2 \uparrow$	$93.22\pm0.1\downarrow$	$86.96\pm0.1\downarrow$	95.87 $\pm$ 0.3 $\downarrow$
Motion Blur	87.46 $\pm$ 0.2 $\downarrow$	83.77 $\pm$ 0.3 $\downarrow$	89.40 $\pm$ 0.4 $\downarrow$	87.12 $\pm$ 0.5 $\downarrow$	90.06 $\pm$ 0.1 $\downarrow$
Zoom Blur	85.25 $\pm$ 0.5 $\downarrow$	79.42 $\pm$ 0.2 $\downarrow$	82.79 $\pm$ 0.1 $\downarrow$	83.56 $\pm$ 0.3 $\downarrow$	$84.66\pm0.4\downarrow$
Fog	$58.17\pm0.6\downarrow$	$64.72\pm0.1\downarrow$	70.45 $\pm$ 0.4 $\downarrow$	62.93 $\pm$ 0.2 $\downarrow$	70.40 $\pm$ 0.2 $\downarrow$
Contrast	$03.82\pm0.2\downarrow$	$37.59\pm0.2\downarrow$	$54.29\pm0.2\downarrow$	03.06 $\pm$ 0.5 $\downarrow$	65.80 $\pm$ 0.1 $\downarrow$
Brightness	05.78 $\pm$ 0.3 $\downarrow$	$42.29\pm0.1\downarrow$	71.03 $\pm$ 0.3 $\downarrow$	09.54 $\pm$ 0.2 $\downarrow$	74.69 $\pm$ 0.2 $\downarrow$
Saturate	$94.72 \pm 0.5 \uparrow$	$88.15\pm0.2\downarrow$	94. 97 $\pm$ 0.3 $\downarrow$	93.94 $\pm$ 0.1 $\downarrow$	96.18 $\pm$ 0.3 $\downarrow$
JpegComp.	94.01 $\pm$ 0.1 $\downarrow$	$88.14\pm0.3\downarrow$	95. 32 $\pm$ 0.1 $\downarrow$	93.75 $\pm$ 0.4 $\downarrow$	96.23 $\pm$ 0.4 $\downarrow$
Elastic Trans.	93.08 $\pm$ 0.3 $\downarrow$	93.05 $\pm$ 0.2 $\downarrow$	95. 49 $\pm$ 0.3 $\uparrow$	$93.45\pm0.1\downarrow$	95.51 $\pm$ 0.2 $\downarrow$
Avg.	67.61 (\psi 26.57)	75.51 (\ 19.92)	88.66 (\ 06.75)	76.66 (\ 18.41)	90.02 (\psi 06.54)

TABLE II: Comparison robustness performances among different data corruption in the lung segmentation task on JSRT dataset using PSPNet [28] as baseline. Dice is utilized as the evaluation metric.

Corruption	PSPNet —	PSPNet (+VAE)	PSPNet (+ImageNet)	PSPNet (+Jigsaw)	PSPNet (+MoCo)	PSPNet (+Ours)	SWAE-PSPNet	SWAE-PSPNet (+Ours)
Ori.	95.34 ± 0.2 -	94.26 ± 0.3 -	96.54 ± 0.1 -	96.32 ± 0.3 -	96.50 ± 0.1 -	96.24 ± 0.2 -	95.52 ± 0.3 -	97.19 ± 0.1 –
Gauss. Noise	84.28 $\pm$ 0.4 $\downarrow$	89.71 $\pm$ 0.2 $\downarrow$	80.97 $\pm$ 0.1 $\downarrow$	78.97 $\pm$ 0.1 $\downarrow$	$87.62\pm0.3\downarrow$	$95.45\pm0.2\downarrow$	$85.35\pm0.4\downarrow$	95.61 $\pm$ 0.4 $\downarrow$
Shot Noise	$88.35\pm0.2\downarrow$	88.03 $\pm$ 0.1 $\downarrow$	79.51 $\pm$ 0.2 $\downarrow$	$78.67\pm0.1\downarrow$	87.56 $\pm$ 0.4 $\downarrow$	95.00 $\pm$ 0.2 $\downarrow$	$88.53\pm0.3\downarrow$	95.80 $\pm$ 0.2 $\downarrow$
Impulse Noise	87.56 $\pm$ 0.4 $\downarrow$	89.46 $\pm$ 0.1 $\downarrow$	$78.92\pm0.4\downarrow$	$81.40\pm0.3\downarrow$	$84.10\pm0.2\downarrow$	95.80 $\pm$ 0.4 $\downarrow$	$86.82\pm0.3\downarrow$	95.89 $\pm$ 0.2 $\downarrow$
Speckle Noise	88.64 $\pm$ 0.1 $\downarrow$	88.93 $\pm$ 0.3 $\downarrow$	79.13 $\pm$ 0.2 $\downarrow$	83.62 $\pm$ 0.1 $\downarrow$	$85.63\pm0.2\downarrow$	$95.86\pm0.2\downarrow$	88.61 $\pm$ 0.2 $\downarrow$	95.92 $\pm$ 0.1 $\downarrow$
Poisson Noise	82.38 $\pm$ 0.3 $\downarrow$	89.11 $\pm$ 0.2 $\downarrow$	$82.89\pm0.2\downarrow$	$78.17\pm0.2\downarrow$	$90.49\pm0.3\downarrow$	$94.51\pm0.4\downarrow$	$85.23\pm0.4\downarrow$	95.01 $\pm$ 0.3 $\downarrow$
Dropout	87.59 $\pm$ 0.1 $\downarrow$	$86.96\pm0.3\downarrow$	70.69 $\pm$ 0.2 $\downarrow$	73.19 $\pm$ 0.5 $\downarrow$	$86.79\pm0.1\downarrow$	94.94 $\pm$ 0.2 $\downarrow$	$86.51\pm0.1\downarrow$	95.47 $\pm$ 0.4 $\downarrow$
Gauss. Blur	$94.72\pm0.2\downarrow$	$93.23\pm0.2\downarrow$	$93.70\pm0.3\downarrow$	93.91 $\pm$ 0.2 $\downarrow$	$94.69\pm0.3\downarrow$	96.42 $\pm$ 0.1 $\downarrow$	$95.58\pm0.1\downarrow$	96.42 $\pm$ 0.2 $\downarrow$
Glass Blur	94.77 $\pm$ 0.3 $\downarrow$	$93.88\pm0.2\downarrow$	91.24± 0.1 ↓	$92.83\pm0.3\downarrow$	$93.32\pm0.2\downarrow$	96.55 $\pm$ 0.2 $\downarrow$	$95.48\pm0.4\downarrow$	$96.51\pm0.1\downarrow$
Defocus Blur	94.87 $\pm$ 0.1 $\downarrow$	$93.40\pm0.1\downarrow$	93.94 $\pm$ 0.3 $\downarrow$	94.03 $\pm$ 0.3 $\downarrow$	$94.95\pm0.2\downarrow$	96.48 $\pm$ 0.3 $\downarrow$	95.78 $\pm$ 0.1 $\downarrow$	96.53 $\pm$ 0.2 $\downarrow$
Motion Blur	88.97 $\pm$ 0.1 $\downarrow$	$86.50\pm0.3\downarrow$	$88.01\pm0.2\downarrow$	90.52 $\pm$ 0.4 $\downarrow$	91.76 $\pm$ 0.3 $\downarrow$	90.01 $\pm$ 0.2 $\downarrow$	89.62 $\pm$ 0.1 $\downarrow$	90.26 $\pm$ 0.1 $\downarrow$
Zoom Blur	82.65 $\pm$ 0.4 $\downarrow$	83.87 $\pm$ 0.2 $\downarrow$	$85.88\pm0.3\downarrow$	84.91 $\pm$ 0.1 $\downarrow$	89.11 $\pm$ 0.2 $\downarrow$	84.47 $\pm$ 0.1 $\downarrow$	$85.44\pm0.2\downarrow$	$85.23\pm0.2\downarrow$
Fog	$58.48\pm0.2\downarrow$	$61.80\pm0.1\downarrow$	77.58 $\pm$ 0.4 $\downarrow$	76.30 $\pm$ 0.2 $\downarrow$	79.77 $\pm$ 0.2 $\downarrow$	$74.50\pm0.3\downarrow$	$61.68\pm0.3\downarrow$	76.48 $\pm$ 0.1 $\downarrow$
Contrast	43.77 $\pm$ 0.5 $\downarrow$	$60.73\pm0.3\downarrow$	59.07 $\pm$ 0.2 $\downarrow$	56.59 $\pm$ 0.4 $\downarrow$	$65.55\pm0.4\downarrow$	$65.37\pm0.3\downarrow$	55.71 $\pm$ 0.4 $\downarrow$	67.74 $\pm$ 0.3 $\downarrow$
Brightness	00.75 $\pm$ 0.1 $\downarrow$	72.73 $\pm$ 0.2 $\downarrow$	$81.99\pm0.2\downarrow$	82.08 $\pm$ 0.3 $\downarrow$	82.93 $\pm$ 0.3 $\downarrow$	79.89 $\pm$ 0.1 $\downarrow$	$01.27\pm0.1\downarrow$	$81.95\pm0.1\downarrow$
Saturate	$95.34\pm0.2\downarrow$	$94.26\pm0.1\downarrow$	$96.52\pm0.1\downarrow$	$96.32\pm0.1\downarrow$	$96.47\pm0.1\downarrow$	96.18 $\pm$ 0.1 $\downarrow$	$96.32\pm0.2\downarrow$	97.11 $\pm$ 0.2 $\downarrow$
JpegComp.	$95.16\pm0.1\downarrow$	94.09 $\pm$ 0.1 $\downarrow$	$91.22\pm0.4\downarrow$	$91.47\pm0.3\downarrow$	$92.88\pm0.3\downarrow$	96.30 $\pm$ 0.3 $\downarrow$	96.11 $\pm$ 0.1 $\downarrow$	96.88 $\pm$ 0.3 $\downarrow$
Elastic Trans.	$95.15\pm0.4\downarrow$	94.08 $\pm$ 0.1 $\downarrow$	$94.07\pm0.3\downarrow$	$95.32\pm0.1\downarrow$	$96.65\pm0.2\downarrow$	$96.55\pm0.1\downarrow$	$95.90\pm0.3\downarrow$	96.74 $\pm$ 0.1 $\downarrow$
Avg.	80.20 \( (15.14)	85.93 \( (08.33)	83.84 \( (12.80)	84.01 \( (12.31)	88.25 \( (07.99)	90.65 \( \tau (05.59)	81.76 \( (13.76)	91.51 (\psi 05.68)

TABLE III: Comparison robustness performances among different data corruption in the lung segmentation task on SH dataset using UNet [25] as baseline. Dice is utilized as the evaluation metric.

Corruption	UNet —	UNet (+ VAE)	UNet (+Ours)	SWAE-UNet	SWAE-UNet (+Ours)
Ori.	$88.03 - \pm 0.2$	86.66 ± 0.2 -	91.31 ± 0.2 -	89.34 ± 0.4 -	93.17 ± 0.3 –
Gauss. Noise	85.97 $\pm$ 0.4 $\downarrow$	$86.47\pm0.2\downarrow$	90.50 $\pm$ 0.2 $\downarrow$	$86.59\pm0.2\downarrow$	90.37 $\pm$ 0.1 $\downarrow$
Shot Noise	83.78 $\pm$ 0.3 $\downarrow$	$84.93\pm0.4\downarrow$	90.61 $\pm$ 0.3 $\downarrow$	83.09 $\pm$ 0.2 $\downarrow$	88.45 $\pm$ 0.2 $\downarrow$
Impulse Noise	$86.96\pm0.2\downarrow$	$85.57\pm0.1\downarrow$	$90.18\pm0.4\downarrow$	87.09 $\pm$ 0.3 $\downarrow$	90.22 $\pm$ 0.3 $\downarrow$
Speckle Noise	82.03 $\pm$ 0.2 $\downarrow$	82.91 $\pm$ 0.4 $\downarrow$	87.64 $\pm$ 0.2 $\downarrow$	$81.31\pm0.1\downarrow$	88.81 $\pm$ 0.3 $\downarrow$
Poisson Noise	$84.03 \pm 0.3 \downarrow$	$84.23\pm0.4\downarrow$	87.73 $\pm$ 0.3 $\downarrow$	$83.60\pm0.1\downarrow$	88.36 $\pm$ 0.1 $\downarrow$
Dropout	$88.30\pm0.3\downarrow$	$86.17\pm0.2\downarrow$	89.03 $\pm$ 0.3 $\downarrow$	$84.24\pm0.2\downarrow$	88.99 $\pm$ 0.2 $\downarrow$
Gauss. Blur	85.07 $\pm$ 0.1 $\downarrow$	$84.86\pm0.2\downarrow$	89.47 $\pm$ 0.3 $\downarrow$	$85.79\pm0.2\downarrow$	89.93 $\pm$ 0.2 $\downarrow$
Glass Blur	$85.25\pm0.2\downarrow$	$86.43\pm0.4\downarrow$	90.76 $\pm$ 0.1 $\downarrow$	$85.79\pm0.1\downarrow$	91.56 $\pm$ 0.2 $\downarrow$
Defocus Blur	85.05 $\pm$ 0.1 $\downarrow$	$86.66 \pm 0.4$ –	90.90 $\pm$ 0.2 $\downarrow$	$86.53\pm0.2\downarrow$	90.05 $\pm$ 0.4 $\downarrow$
Motion Blur	80.73 $\pm$ 0.2 $\downarrow$	$81.62\pm0.2\downarrow$	84.91 $\pm$ 0.5 $\downarrow$	82.45 $\pm$ 0.2 $\downarrow$	85.56 $\pm$ 0.3 $\downarrow$
Zoom Blur	69.43 $\pm$ 0.3 $\downarrow$	$71.28\pm0.1\downarrow$	77.68 $\pm$ 0.2 $\downarrow$	70.19 $\pm$ 0.1 $\downarrow$	79.06 $\pm$ 0.4 $\downarrow$
Fog	55.31 $\pm$ 0.4 $\downarrow$	$51.22\pm0.4\downarrow$	$56.70\pm0.2\downarrow$	$53.25\pm0.2\downarrow$	56.98 $\pm$ 0.4 $\downarrow$
Contrast	$37.75\pm0.2\downarrow$	$35.45\pm0.2\downarrow$	43.19 $\pm$ 0.2 $\downarrow$	$35.85\pm0.3\downarrow$	$41.78\pm0.1\downarrow$
Brightness	57.72 $\pm$ 0.4 $\downarrow$	$61.48\pm0.1\downarrow$	62.70 $\pm$ 0.2 $\downarrow$	65.68 $\pm$ 0.3 $\downarrow$	65.41 $\pm$ 0.1 $\downarrow$
Saturate	87.64 $\pm$ 0.4 $\downarrow$	$88.93 \pm 0.4 \uparrow$	91.72 $\pm$ 0.3 $\uparrow$	$86.90\pm0.2\downarrow$	90.96 $\pm$ 0.1 $\downarrow$
JpegComp.	87.55 $\pm$ 0.4 $\downarrow$	$88.44 \pm 0.2 \uparrow$	$91.34 \pm 0.2 \uparrow$	87.72 $\pm$ 0.1 $\downarrow$	91.76 $\pm$ 0.2 $\downarrow$
Elastic Trans.	86.07 $\pm$ 0.2 $\downarrow$	86.47 $\pm$ 0.4 $\downarrow$	$91.48 \pm 0.2 \uparrow$	$86.82\pm0.2\downarrow$	92.95 $\pm$ 0.3 $\downarrow$
Avg.	78.16 (\ 09.87)	78.42 (\ 08.24)	84.50 (\psi 06.81)	78.41 (\psi 10.93)	83.01 (\ 10.17)

TABLE IV: Comparison robustness performances among different data corruption in the lung segmentation task on SH dataset using PSPNet [28] as baseline. Dice is utilized as the evaluation metric.

Corruption	PSPNet —	PSPNet (+VAE)	PSPNet (+ImageNet)	PSPNet (+Jigsaw)	PSPNet (+MoCo)	PSPNet (+Ours)	SWAE-PSPNet	SWAE-PSPNet (+Ours)
Ori.	83.26 ± 0.3 -	91.97 ± 0.2 -	92.67 ± 0.2 -	93.95 ± 0.1 -	94.74 ± 0.1 -	92.68 ± 0.3 -	85.17 ± 0.3 -	94.77 ± 0.2 –
Gauss. Noise	82.45 $\pm$ 0.2 $\downarrow$	83.43 $\pm$ 0.1 $\downarrow$	$85.06\pm0.2\downarrow$	86.99 $\pm$ 0.4 $\downarrow$	87.46 $\pm$ 0.2 $\downarrow$	85.93 $\pm$ 0.4 $\downarrow$	$84.32\pm0.1\downarrow$	92.03 $\pm$ 0.2 $\downarrow$
Shot Noise	82.72 $\pm$ 0.1 $\downarrow$	76.10 $\pm$ 0.3 $\downarrow$	$85.57\pm0.3\downarrow$	$85.38\pm0.2\downarrow$	87.10 $\pm$ 0.4 $\downarrow$	84.96 $\pm$ 0.1 $\downarrow$	83.02 $\pm$ 0.3 $\downarrow$	91.00 $\pm$ 0.2 $\downarrow$
Impulse Noise	$81.46\pm0.2\downarrow$	$85.22\pm0.3\downarrow$	$85.61\pm0.1\downarrow$	$88.67\pm0.4\downarrow$	$85.48\pm0.3\downarrow$	$86.28\pm0.2\downarrow$	83.09 $\pm$ 0.3 $\downarrow$	92.16 $\pm$ 0.3 $\downarrow$
Speckle Noise	82.77 $\pm$ 0.2 $\downarrow$	83.72 $\pm$ 0.3 $\downarrow$	83.02 $\pm$ 0.4 $\downarrow$	83.08 $\pm$ 0.1 $\downarrow$	$86.17\pm0.3\downarrow$	84.20 $\pm$ 0.2 $\downarrow$	$81.96\pm0.3\downarrow$	90.00 $\pm$ 0.1 $\downarrow$
Poisson Noise	79.89 $\pm$ 0.2 $\downarrow$	53.77 $\pm$ 0.4 $\downarrow$	$88.43\pm0.3\downarrow$	$78.31\pm0.2\downarrow$	89.63 $\pm$ 0.1 $\downarrow$	84.44 $\pm$ 0.3 $\downarrow$	83.88 $\pm$ 0.1 $\downarrow$	90.88 $\pm$ 0.2 $\downarrow$
Dropout	79.48 $\pm$ 0.2 $\downarrow$	$67.69\pm0.2\downarrow$	77.57 $\pm$ 0.1 $\downarrow$	$81.24\pm0.3\downarrow$	$76.35\pm0.1\downarrow$	82.73 $\pm$ 0.2 $\downarrow$	75.57 $\pm$ 0.3 $\downarrow$	86.96 $\pm$ 0.1 $\downarrow$
Gauss. Blur	84.77 ± 0.3 ↑	90.65 $\pm$ 0.2 $\downarrow$	87.08 $\pm$ 0.4 $\downarrow$	$78.56\pm0.1\downarrow$	$91.01\pm0.3\downarrow$	84.96 $\pm$ 0.2 $\downarrow$	85.34 ± 0.1 ↑	91.03 $\pm$ 0.1 $\downarrow$
Glass Blur	85.32 ± 0.3 ↑	90.92 $\pm$ 0.3 $\downarrow$	$83.21\pm0.1\downarrow$	$88.44\pm0.2\downarrow$	$91.19\pm0.3\downarrow$	$85.56\pm0.1\downarrow$	85.44 ± 0.3 ↑	91.35 $\pm$ 0.2 $\downarrow$
Defocus Blur	83.54 ± 0.2 ↑	90.80 $\pm$ 0.2 $\downarrow$	87.23 $\pm$ 0.2 $\downarrow$	$80.63\pm0.4\downarrow$	91.68 $\pm$ 0.1 $\downarrow$	$85.45\pm0.3\downarrow$	$85.48 \pm 0.2 \uparrow$	$91.29\pm0.3\downarrow$
Motion Blur	$81.56\pm0.1\downarrow$	85.72 $\pm$ 0.3 $\downarrow$	$82.58\pm0.2\downarrow$	$83.63\pm0.4\downarrow$	88.81 $\pm$ 0.3 $\downarrow$	85.72 $\pm$ 0.2 $\downarrow$	$81.75\pm0.2\downarrow$	86.49 $\pm$ 0.1 $\downarrow$
Zoom Blur	76.80 $\pm$ 0.2 $\downarrow$	$76.82\pm0.2\downarrow$	$81.90\pm0.3\downarrow$	$80.25\pm0.1\downarrow$	87.90 $\pm$ 0.4 $\downarrow$	$81.52\pm0.3\downarrow$	72.28 $\pm$ 0.2 $\downarrow$	83.84 $\pm$ 0.2 $\downarrow$
Fog	57.87 $\pm$ 0.2 $\downarrow$	$54.68\pm0.3\downarrow$	$60.73\pm0.1\downarrow$	55.27 $\pm$ 0.2 $\downarrow$	74.83 $\pm$ 0.3 $\downarrow$	60.79 $\pm$ 0.4 $\downarrow$	$54.55\pm0.3\downarrow$	86.79 $\pm$ 0.2 $\downarrow$
Contrast	$40.27\pm0.3\downarrow$	56.61 $\pm$ 0.3 $\downarrow$	$51.69\pm0.4\downarrow$	$43.87\pm0.1\downarrow$	$54.16\pm0.3\downarrow$	53.06 $\pm$ 0.4 $\downarrow$	59.10 $\pm$ 0.1 $\downarrow$	60.04 $\pm$ 0.2 $\downarrow$
Brightness	$00.11\pm0.3\downarrow$	$65.60\pm0.3\downarrow$	$64.86\pm0.2\downarrow$	67.40 $\pm$ 0.4 $\downarrow$	$63.60\pm0.4\downarrow$	$65.68\pm0.1\downarrow$	$06.60\pm0.2\downarrow$	$64.54\pm0.3\downarrow$
Saturate	$83.22\pm0.2\downarrow$	$91.91 \pm 0.1$ –	93.96 $\pm$ 0.4 $\uparrow$	93.93 ± 0.3 ↑	95.75 $\pm$ 0.2 $\uparrow$	90.44 $\pm$ 0.3 $\downarrow$	$84.10\pm0.3\downarrow$	$93.00\pm0.1\downarrow$
JpegComp.	82.95 $\pm$ 0.1 $\downarrow$	83.43 $\pm$ 0.1 $\downarrow$	$91.73\pm0.1\downarrow$	87.85 $\pm$ 0.3 $\downarrow$	$85.98\pm0.2\downarrow$	89.13 $\pm$ 0.4 $\downarrow$	$85.85 \pm 0.1 \uparrow$	92.81 $\pm$ 0.2 $\downarrow$
Elastic Trans.	83.32 $\pm$ 0.1 $\downarrow$	$91.19\pm0.2\downarrow$	89.20 $\pm$ 0.4 $\downarrow$	$91.33\pm0.4\downarrow$	94.38 $\pm$ 0.3 $\downarrow$	86.97 $\pm$ 0.5 $\downarrow$	84.98 $\pm$ 0.3 $\downarrow$	$92.46\pm0.1\downarrow$
Avg.	68.77 ↓ (14.49)	78.13 \( (13.84)	81.14 \( (11.53)	79.68 \( (14.30)	84.20 \( \psi(10.54)	81.05 \( (11.63)	75.14 \( (10.03)	86.86 \( \( (07.91) \)