Quantitative Result on ImageNet Dataset

	FSGM		PGD		BIM		DeepFool		C&W		NewtonFool	BPDA
	2/255 ↑	4/255 ↑	2/255 ↑	4/255 ↑	2/255 ↑	4/255 ↑	L_∞ ↑	L_2 ↑	L_∞ ↑	L_2 ↑	L_∞ ↑	L_∞ ↑
						ResNet-101						
JPEG-Defense [20]	33.14	20.71	45.19	21.74	36.78	8.5	53.16	45.69	59.06	52.01	24.65	0.08
TVM [27]	43.75	40.02	45.46	44.35	44.86	41.93	47.69	39.89	45.51	40.44	22.6	6.39
Randomized Resizing & Padding [84]	45.21	34.97	45.38	27.75	40.04	18.04	73.06	62.47	66.53	59.87	27.93	2.66
HGD [47]	54.75	43.85	55.26	50.05	56.74	48.61	64.34	58.13	59.98	52.88	27.70	0.03
Pixel-Deflection [64]	54.56	35.14	60.68	34.86	58.71	41.91	**75.97**	**64.13**	66.29	60.91	28.81	1.87
ComDefend [38]	48.21	36.51	53.28	48.38	51.39	42.01	63.68	55.62	58.53	50.38	26.46	0.03
Proposed Method	**66.02**	**58.85**	**68.34**	**66.17**	**66.91**	**63.01**	72.04	63.52	**71.40**	**67.33**	**40.96**	**38.85**
						InceptionV3						
JPEG-Defense [20]	31.97	20.25	43.34	21.15	34.68	8.55	51.20	43.49	55.00	50.39	24.06	0.12
TVM [27]	42.47	37.23	42.75	41.61	42.80	39.71	45.21	37.39	43.27	37.51	23.05	4.58
Randomized Resizing & Padding [84]	41.86	34.49	43.41	25.60	39.42	16.62	70.24	58.65	63.24	55.62	27.55	2.09
HGD [47]	52.83	40.99	50.35	47.62	56.02	47.78	60.33	56.61	59.55	52.0	26.84	0.03
Pixel-Deflection [64]	51.42	34.27	56.13	32.49	56.18	39.13	**71.16**	**61.58**	61.94	57.58	28.01	1.56
ComDefend [38]	47.00	35.34	49.99	46.15	48.74	39.58	60.01	52.47	55.85	47.70	25.44	0.03
Proposed Method	**63.03**	**56.34**	**65.69**	**63.03**	**64.77**	**59.49**	69.25	60.04	**66.97**	**64.69**	**38.01**	**36.43**

Quantitative Result on COCO Dataset

	FSGM		PGD		BIM		DAG	
	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑
JPEG-Defense [20]	37.41	32.27	24.53	6.21	25.74	10.18	14.12	5.66
TVM [27] [27]	42.64	41.53	45.55	42.24	44.51	38.44	31.88	25.56
HGD [47]	43.39	40.82	44.54	40.88	40.03	39.95	28.61	22.36
Pixel-Deflection [64]	44.13	41.88	46.38	42.32	44.78	37.22	30.73	24.61
ComDefend [38]	45.57	39.23	44.85	41.14	42.71	36.12	28.94	23.36
Proposed Method	**52.35**	**48.04**	**53.41**	**49.59**	**54.86**	**50.51**	**40.35**	**37.88**

Quantitative Result on Pascal VOC Dataset

	FSGM		PGD		BIM		DAG	
	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑	$L_\infty = 2/255$ ↑	$L_\infty = 4/255$ ↑
JPEG-Defense [20]	39.02	35.88	37.96	33.51	38.85	34.69	30.72	25.07
TVM [27]	48.11	39.66	47.1	44.38	48.94	41.76	39.20	33.18
HGD [47]	50.68	40.06	51.24	45.92	46.80	39.74	41.15	37.23
Pixel-Deflection [64]	53.77	44.82	54.45	47.22	55.32	48.32	46.52	39.87
ComDefend [38]	50.18	42.93	50.46	43.08	52.32	44.2	44.68	37.22
Proposed Method	**61.68**	**59.37**	**64.71**	**60.23**	**66.52**	**61.82**	**57.83**	**54.12**