

Dual-Pixel Raindrop Removal

Yizhou Li, Yusuke Monno, and Masatoshi Okutomi Tokyo Institute of Technology, Tokyo, Japan



Proposed Network

Dual Pixel Raindrop Removal Network (DPRRN)



Experiment: Qualitative Comparison

Table 1: Quantitative comparison on our datasets. (Red: rank 1st; Blue: rank 2nd)

Input Image Types	Methods	Synthetic		Real-World	
		PSNR	SSIM	PSNR	SSIM
Regular	AttGAN (CVPR2018) [26]	34.55	0.9614	29.59	0.9127
	CCN (CVPR2021) [27]	38.88	0.9790	27.92	0.9001
	MPRNet (CVPR2021) [39]	41.02	0.9828	30.83	0.9247
	Restormer (CVPR2022) [40]	41.94	0.9845	30.88	0.9248
	DGUNet (CVPR2022) [20]	41.32	0.9835	31.08	0.9259
Dual Pixel	RDPD+ (ICCV2021) [5]	40.51	0.9809	31.18	0.9205
	DPRRN ^{-RD} (Ours)	40.93	0.9824	31.85	0.9357
	DPRRN (Ours)	42.70	0.9867	32.47	0.9396



Project Homepage

Code and data are available

http://www.ok.sc.e.titech.ac.jp/res/SIR/ dprrn/dprrn.html





Experiment: Quantitative Comparison

Results on Synthetic-Raindrop Dataset



Results on Real-world Dataset



