Fast and Accurate Image Super-Resolution with Deep Laplacian Pyramid Networks

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5.3 Model parameters

We show the reconstruction performance versus the number of network parameters of CNN-based SR methods in Figure 15. By sharing parameters and using recursive layers, our MS-LapSRN has parameters about 73% less than the LapSRN [16], 66% less than the VDSR [11], 87% less than the DRCN [12], and 25% less than the DRRN [13]. While our model has a smaller footprint, we achieve the state-

$$73\% = 100 - \frac{MSLapSRN \ Parameters}{LapSRN \ Parameters} * 100$$

$$73\% = 100 - \frac{222}{812} * 100 = 100 - 27.33 = 73\%$$

$$87\% = 100 - \frac{\text{MSLapSRN Parameters}}{\text{DRCN Parameters}} * 100$$

$$87\% = 100 - \frac{222}{1775} * 100 = 100 - 27.33 = 87\%$$