Image name	Bicubic	Directional	Cubic spline	8-tap	12-tap	Contourlet	Shearlet
bikes	26.68	26.20	27.02	27.23	27.32	27.63	28.38
building2	23.83	22.89	24.08	24.28	24.34	24.58	24.84
buildings	23.85	23.32	24.06	24.23	24.29	24.51	24.78
caps	35.60	35.38	35.78	36.06	36.13	36.33	37.03
coinsinfountain	30.56	29.60	30.44	31.08	31.16	31.62	32.08
flowersonih35	23.74	22.76	23.87	24.13	24.19	24.47	24.71
house	31.09	30.62	31.38	31.52	31.60	31.73	32.14
lighthouse2	29.19	28.55	29.44	29.55	29.61	29.78	30.07
monarch	31.87	31.04	32.37	32.59	32.71	33.03	33.85
ocean	32.17	31.70	32.23	32.47	32.52	32.62	32.93
paintedhouse	28.23	27.64	28.50	28.65	28.71	28.90	29.35
parrots	34.82	34.39	35.36	35.59	35.70	35.88	36.59
plane	31.47	30.32	31.59	31.86	31.92	32.30	32.78
rapids	29.42	28.73	29.67	29.91	29.98	30.18	30.66
sailing1	28.60	27.77	28.81	28.92	28.97	29.14	29.34
stream	24.73	24.03	24.93	25.08	25.14	25.29	25.50
Average (Train)	29.12	28.43	29.35	29.57	29.64	29.87	30.32
PSNR diff. (Train)	-1.20	-1.88	-0.97	-0.74	-0.67	-0.44	-
PSNR diff. (Test)	-1.09	-1.86	-0.81	-0.63	-0.56	-0.47	-

Table 1: PSNR results in dB for 2x interpolation comparing seven methods. Three linear approaches (bicubic, cubic spline, and 8-tap FIR) and two nonlinear approaches (Directional and contourlet) are compared to the proposed technique. The PSNR difference over 16 training and 200 test images are summarized.