

Supplementary Material (Paper ID 88)

1 Input image data from Middlebury Stereo

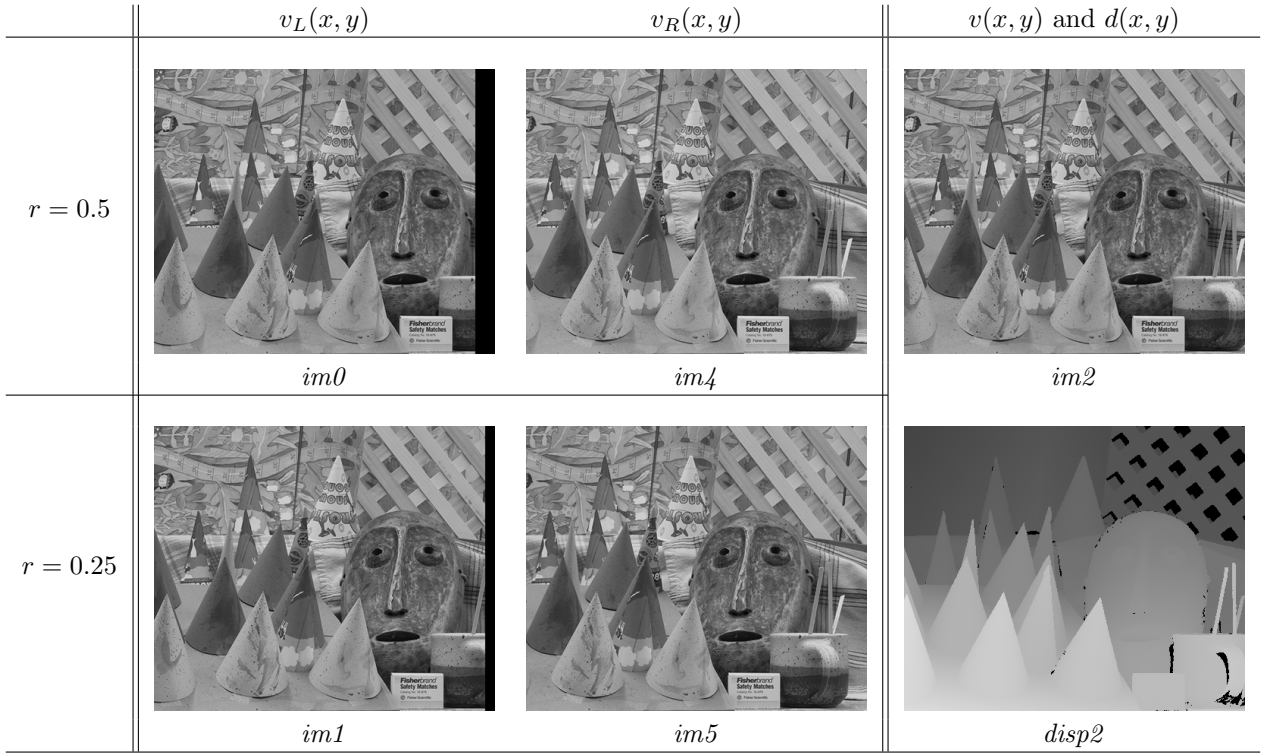


Figure 1: cones

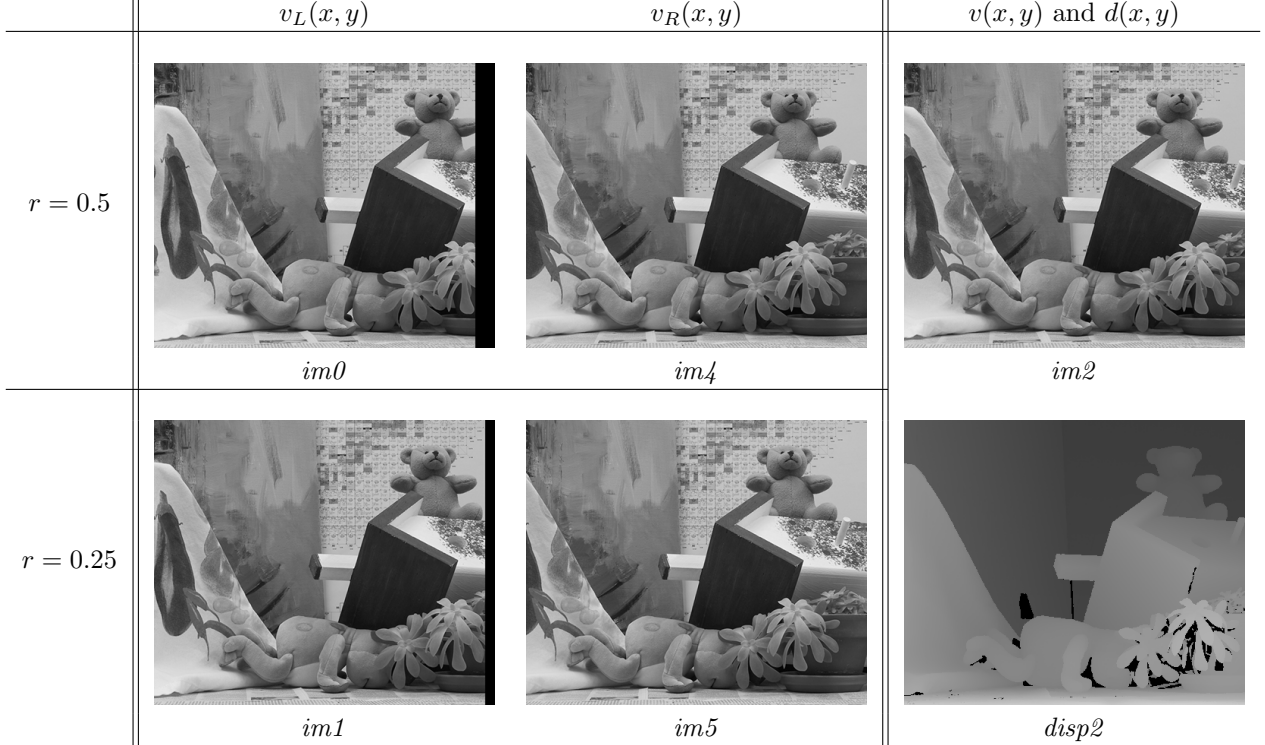


Figure 2: teddy

2 Results

Table 1: Summary			
	dataset	disparity error	viewpoint(r)
Figure 3	cones	Gaussian	0.5
Figure 4	cones	Gaussian	0.25
Figure 5	cones	uniform	0.5
Figure 6	cones	uniform	0.25
Figure 7	teddy	Gaussian	0.5
Figure 8	teddy	Gaussian	0.25
Figure 9	teddy	uniform	0.5
Figure 10	teddy	uniform	0.25

* Note that MSE values may be slightly different from those described in the paper, because disparity errors are generated by the random number generator.


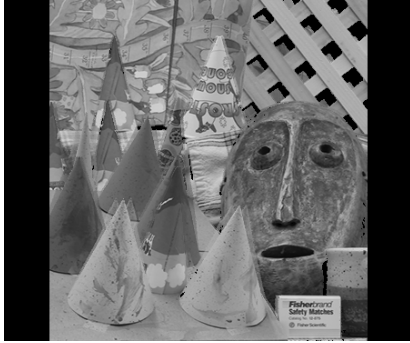










σ	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 MSE = 70.9	 MSE = 70.9	 MSE = 71.5
1.0	 MSE = 88.1	 MSE = 88.1	 MSE = 89.2
3.0	 MSE = 209.5	 MSE = 182.6	 MSE = 177.6
5.0	 MSE = 311.1	 MSE = 252.1	 MSE = 245.4

Figure 3: dataset: *cones*, disparity error: Gaussian, viewpoint: $r = 0.5$













σ	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 MSE = 49.3	 MSE = 49.3	 MSE = 49.6
1.0	 MSE = 58.2	 MSE = 58.2	 MSE = 58.8
3.0	 MSE = 139.3	 MSE = 133.6	 MSE = 124.0
5.0	 MSE = 224.3	 MSE = 194.4	 MSE = 181.7

Figure 4: dataset: *cones*, disparity error: Gaussian, viewpoint: $r = 0.25$













a	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 <p>MSE = 69.0</p>	 <p>MSE = 69.0</p>	 <p>MSE = 69.2</p>
1.0	 <p>MSE = 72.8</p>	 <p>MSE = 72.8</p>	 <p>MSE = 73.7</p>
4.0	 <p>MSE = 186.0</p>	 <p>MSE = 153.2</p>	 <p>MSE = 150.9</p>
7.5	 <p>MSE = 306.1</p>	 <p>MSE = 229.6</p>	 <p>MSE = 223.6</p>

Figure 5: dataset: *cones*, disparity error: Uniform, viewpoint: $r = 0.5$













a	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 MSE = 47.7	 MSE = 47.7	 MSE = 47.8
1.0	 MSE = 49.6	 MSE = 49.6	 MSE = 49.9
4.0	 MSE = 115.6	 MSE = 112.5	 MSE = 102.1
7.5	 MSE = 216.0	 MSE = 180.9	 MSE = 164.2

Figure 6: dataset: *cones*, disparity error: Uniform, viewpoint: $r = 0.25$













σ	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 MSE = 82.0	 MSE = 82.0	 MSE = 82.7
1.0	 MSE = 90.5	 MSE = 90.5	 MSE = 91.9
3.0	 MSE = 164.2	 MSE = 147.5	 MSE = 145.6
5.0	 MSE = 225.8	 MSE = 191.6	 MSE = 186.7

Figure 7: dataset: *teddy*, disparity error: Gaussian, viewpoint: $r = 0.5$













σ	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 MSE = 47.8	 MSE = 47.8	 MSE = 48.2
1.0	 MSE = 53.6	 MSE = 53.6	 MSE = 54.4
3.0	 MSE = 102.5	 MSE = 99.1	 MSE = 93.0
5.0	 MSE = 158.4	 MSE = 139.3	 MSE = 129.5

Figure 8: dataset: *teddy*, disparity error: Gaussian, viewpoint: $r = 0.25$













a	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 MSE = 80.9	 MSE = 80.9	 MSE = 81.2
1.0	 MSE = 82.5	 MSE = 82.5	 MSE = 83.7
4.0	 MSE = 147.9	 MSE = 128.4	 MSE = 129.5
7.5	 MSE = 224.5	 MSE = 175.1	 MSE = 173.9

Figure 9: dataset: *teddy*, disparity error: Uniform, viewpoint: $r = 0.5$













a	linear interpolation	band-limited linear interpolation	optimal interpolation
0.5	 MSE = 47.3	 MSE = 47.3	 MSE = 47.4
1.0	 MSE = 48.3	 MSE = 48.3	 MSE = 48.8
4.0	 MSE = 86.8	 MSE = 84.9	 MSE = 79.3
7.5	 MSE = 150.7	 MSE = 128.5	 MSE = 117.7

Figure 10: dataset: *teddy*, disparity error: Uniform, viewpoint: $r = 0.25$