
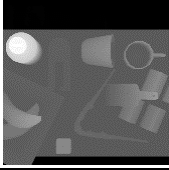
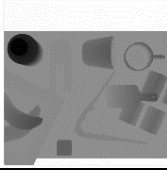





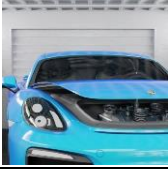

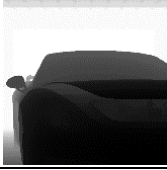



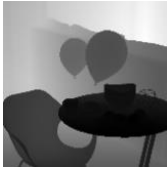





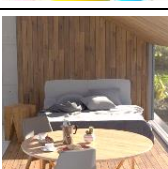

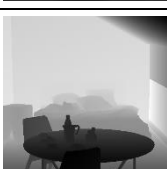
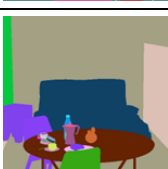

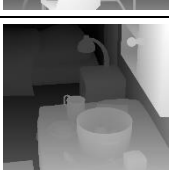



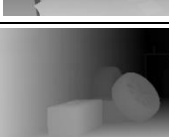







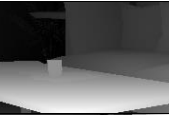
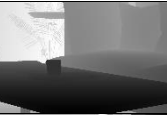







IT 4D Light Field (LF) dataset

Light field	LF view thumbnail	LF Spatial and angular resolution	Disparity range	Disparity thumbnail	Depth thumbnail	Segmentation labels thumbnail
Kitchen		512x512 pixels 9x9 views	[3.2, 13.4]			
Room		512x512 pixels 9x9 views	[-18.1, 8.8]			
Car		512x512 pixels 9x9 views	[-1.5, 70.3]			
Balloons		512x512 pixels 9x9 views	[-35.3, 3.0]			
Chess		512x512 pixels 9x9 views	[-15.7, 9.6]			
Breakfast		512x512 pixels 9x9 views	[-21.9, 28.8]			
Antique		512x512 pixels 9x9 views	[-5.4, 1.2]			
Garage		HD (1280x720 pixels) 9x9 views	[-14.6, 89.0]			
Bedroom		HD (1280x720 pixels) 9x9 views	[-60.8, -21.6]			
Leisure		HD (1280x720 pixels) 9x9 views	[-34.3, 123.3]			
Antique2		HD (1280x720 pixels) 9x9 views	[-13.6, 2.0]			

The dataset is generated by using LF Blender add-on [1], [2], and uses available free 3D models [3]–[6]:

- The dataset is available at: <http://www.img.lx.it.pt/IT-4DLF/>
- If you use this dataset in your work, please cite our paper:

Maryam Hamad, Caroline Conti, Paulo Nunes, Luís Ducla Soares, “Hyperpixels: Flexible 4D Over-segmentation for Dense and Sparse 4D Light Fields,” *IEEE Transactions on Image Processing*, vol. 32, pp. 3790–3805, 2023, doi: 10.1109/TIP.2023.3290523.

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