**3D shape reconstruction from focus and enhanced focus volume**

data and code for shape-from-focus for paper: Yuezong Wang, Lu Zhang, Jiqiang Chen, Jialun Zhang.

**Method**



**Simulated images**

the images with different focuses

**Real images**

the images were captured with the camera

**Functions**

**SFF\_Main**

Main function: run this mat to see the result

**fun\_GLV\_local**

the focus measuring operator, which is set 5 × 5 and 9 × 9 respectively

**gauss3P\_halfmax**

gaussian fit for focus curve with FWHM

**scale\_volume**

normalization function

**fun\_Classify**

classified function, remove the error points

**fun\_MergeDeep**

stitching of depth maps

**fun\_MergeImg**

stitching of all-in-focus maps