EE 645 3D Computer Vision | Report Assignment 4

- S Deepak Narayanan, 16110142

Notes

The Version of Python used was 3.6.6 and I have made use of OpenCV and OpenCV Contrib Libraries (For SIFT). These are of version 3.4.2.
Every image except the first one shown below was resized to a dimension of 300 x 300 or 500 x 500 as appropriately mentioned.
Input has been resized to a much smaller input to make the program computationally inexpensive.

References:

1. https://docs.opencv.org/3.2.0/da/de9/tutorial_py_epipolar_geometry.html
2. Stereo Datasets Used from http://vision.middlebury.edu/stereo/data/

Image 1 - Mask (Not Resized)

Reference Image

Source Image

Obtained Result

Image 2 - Vintage (Resized to 300 x 300)

Reference Image

Source Image

Obtained Result

Image 3 - Piano (Resized to 500 x 500)

Reference Image

Source Image

Result Obtained