

Photogrammetric Computer Vision

Assignment 4

Group K

We have paired two different viewing images of the same object from two different positions. We measure 8 points and generated Fundamental Matrix and finally drew epipolar lines. From our measurement,

The geometric image error is

```
geometric_image_error = 1.0003e-24
```

using the Sampson distance.

While we did the SVD of design matrix to generate the Fundamental Matrix F , calculated epipolar lines and finally drew lines, we got the following findings:

- The lines we drew joined in a point.
- Low Geometric Image Error.



Thus, we can say that, F seems to have fulfilled the singularity constraint.