

Assignment 4

Photogrammetry Computer Vision

Image Acquisition:

Two photographs of an object was taken from two different views, and points where the image coordinates are to be taken from are marked on the image from one to eight points.

Based on the result obtained from the matlab code, the epipolar line were seen to intersect and converge at a point inside the image pairs. This implies that the fundamental matrix has a full rank with its determinant as 0. This also implies that singularity constrained as been enforced using a rank 2 approximation.



Geometric Error:

The geometric error based on Sampson distance was evaluated in the matlab code and the value obtained was given as: $1.1181e-11$.