

IC5303 Computer Vision

Program Assignment #2: Fundamental matrix estimation

due date: November 14, 2017, email to: kjyoon@gist.ac.kr

- Estimate a fundamental matrix of the input images taken by a stereo camera shown in Fig. 1, using eight-point and normalized eight-point algorithms, and compare the results.
 - For estimation, both algorithms require point correspondences across input images. To this end, you can use any existing open source codes or manually gather correspondences by hand.
 - To check the validity of your results, draw point correspondences and epipolar lines from the estimated fundamental matrix as in Fig. 2.



Figure 1. Input images for F-matrix computation ('img1.png' and 'img2.png')



Figure 2. Point correspondences (red circles) and epipolar lines from estimated fundamental matrix (blue lines)