

## **Project 2:**

### **Estimate the Fundamental Matrix**

Implement the least-squares (LS) solution to estimating the Fundamental matrix. Use the algorithm presented in class. This algorithm is also summarized in Chapter 10.1 of the course textbook. To avoid numerical problems, use Hartley's normalization step. Use the images provided in the course webpage to obtain your result.

Write a 2-3 page report describing what you did and what you learned. Your Matlab implementation should visualize the epipolar lines for each of the image points and provide the error on estimating these. Your report should include the error measurements and may include a few image examples.

*Optional:* (a) You can improve the results using the non-linear LS extension of the algorithm. (b) Take your own pictures and use the algorithm to estimate the Fundamental matrix for your images.