Assignment 3

Due Date Feb 23, 2020

Topics: Feature extraction, Object Matching

In this assignment, you are required to write a program that draws correspondence between feature points in two given image.

You program should accept two different images, **L** and **R** of the same scene (from slightly different angles). They should have a large overlap, at least 60%. In addition, your program should use two parameters: *n* and *m*, where *n* is the number of the best feature points and *m* is the best corresponding feature points for a selected feature point (will be clear next).

The program should perform

1. Compute the best *n* SIFT points on the two images. The best is computed according to the SIFT descriptor
2. The user can select a feature point, **p**, from the image **L** and the program will show the *m* feature points on the image **R**, which are the most similar points to **p** according to the SIFT descriptor
3. It then computes the maximum matching cover among the feature points of the two images, write it to a text file, and display it to the user.