CS 6790 : Geometry & Photometry-based Computer Vision

Programming Assignment 3

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1. Please compute the fundamental matrix F using given pair of images by using the 8-point algorithm. You may use any numerical routines available in Matlab/libraries.
2. Then, please use this algorithm as a base to automatically estimate the fundamental matrix between two images using a point matcher (e.g. SIFT) and RANSAC. You may use standard detector/descriptor code available in Matlab/openCV/other sources.
3. Please compare the time/number of trials taken by RANSAC for the different pairs of images.

- **Suggested Programming languages :** Python/Matlab
- **Dead line : 07/04/2020**
- **Images for Assignment :** `https://goo.gl/2UfVxT`. You may resize and crop images for faster processing.
- **PDF Upload:** `https://www.turnitin.com` Class ID: 17456076 Enrollment Key: CS6790 Naming format: RollNo_FName_2.pdf Ex CS15D001_Amitabh_2.pdf
- **Code Upload:** Using Moodle. Naming format: Same as pdf with .zip or .tar.gz extension.
- **PDF Instruction:** PDF should contain: i) Results ii) Brief of concepts applied. PDF should NOT contain codes.
- Email submissions will not be accepted. Reduce file size (if required).
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