Computer Vision I

TERM PROJECT (Individual, Optional)

Due on April 25, 2023

STRUCTURE from MOTION

1. Implement the Factorization method for structure from motion discussed in class. You will need to find features (you can use the CORNERS algorithm from project 2 or SIFT features) and to track the features across frames. For the tracker you are free to use any code for feature point tracking available online or in MATLAB. KLT (Shi, "Good Features to Track") is a popular tracker and a good choice.

2. Create an ASCII output PLY file with the 3D x, yz coordinates of the points separated by commas, so that they can be read and displayed using Meshlab (`http://meshlab.sourceforge.net`).

3. Test your algorithm on the CMU Hotel Sequence given in canvas.

4. Write a report showing your results.