

# **EE 417 Computer Vision - Fall 2021**

## **Term Project**

**Deadline: January 5, 2022, 23:55**

As a term project, you can work on one of the 3 important tasks (recognition, reconstruction and reorganization) in computer vision. The project should be related to the course content and you can select one (or more than one) of the following topics to realize the project.

- Feature Detection/Extraction
- Feature Matching
- Semantic Segmentation
- Camera Calibration
- Optic Flow
- Visual Tracking
- Motion Estimation
- Image Registration
- Stereo Vision
- Structure from Motion (SfM)
- Pose Estimation
- 3D Reconstruction
- Object Recognition

Do not copy-paste material from the web. However, you can use libraries and built-in functions in your implementations. In particular, the following items must be addressed:

- Importance of the Problem and Problem Definition (10 pts)
- Problem Formulation and Solution Method (25 pts)
- Your own implementation and providing your own results (30pts)
- Discussion of the results (25 pts)
- A clear and compact report that contains all the items above. Developed codes must be put into the appendix of the report. References must be provided at the end of the report and must be referred in the text. (10 pts)

You will submit your project report through SUCourse.

Good luck.  
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