Final Project Notices

CS6550 Computer Vision

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Final Project (20%)

General Guideline

- 1-3 students form a group (3-member groups are highly encouraged to harder topics)
- Select a topic from the list of suggested topics or a topic related to computer vision
- The project consists of four stages
  - Project proposal (20%)
  - Project Demo and report (80%)

List of Final Topics

Image Classification

Image Saliency Detection

Image Segmentation (Learning Based)

Image Restoration

Object Detection

Facial Expression Recognition

Gesture Recognition

Stereo Matching

Top Journals & Conferences

- IEEE Trans. Pattern Analysis and Machine Intelligence (PAMI)
- International Journal of Computer Vision (IJCV)
- IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- SIGGRAPH, SIGGRAPH Asia

Get Started

1. Form a team
2. Decide a topic
3. Search related papers in recent top conferences and journals
4. Read a few of the most related papers
5. Discuss the project proposal and write the proposal
6. Search related programs in public domain and test them
7. Prepare the project presentation in class
8. Implement the algorithm or your idea with experimentation
9. Prepare the project demo and write the report

Reminder

- You don't need to implement the whole system of your project. Some components can be borrowed from others.
- Take advantage of publicly available resources, including code and dataset.
- It's important to complete the project that can show some demo or meaningful results.
- Including some experimental comparisons is encouraged.

Main Schedule

- 12/28 Project proposal due in class (project title, specific project goal, planned procedure, expected outcome, team members, references)
- 1/16 Final project presentation date
  - About 6-10 minutes for each team
- 1/17 Final project report due