Briefing on Final Project of Advanced Computer Vision

http://acv.sensetime.lan/final_project.html

Key Components

1. Project proposal (10%)

2. Final report and presentation (90%)

Choose your topic

We provide a topic pool in next slide and the final project can also be any topic related to the theory or applications of deep learning. You may get inspiration from papers in top conferences, e.g., ICML, ICLR, NIPS …...

Fill in the Google Form https://forms.gle/KtgdSekCukz5npCi9 before TBD.

Deadline: TBD

Alternative topics

- 2D object recognition
- 3D object recognition
- Action and behavior recognition
- Biometrics, face, gesture, body pose
- Efficient training and inference methods for networks
- Image and video retrieval
- Image classification
- Motion and tracking
- Optimization and learning methods
- Pose estimation
- Scene analysis and understanding
- Transfer, low-shot, semi- and un- supervised learning
- Video analysis and understanding
- Vision applications and systems, vision for robotics and autonomous vehicles

Available TAs

Each student will be assigned a TA-in-charge based on your topic. You can discuss with your TA-in-charge. BUT they will NOT help with debugging, thinking the main bulk of your idea, writing paper, etc. It is your own responsibility to conduct the WHOLE pipeline.

Available TAs

NOTE:

All inquiries, correspondences, etc. **_regarding to the final project_** should be sent to your own TA-in-charge. He or she will help you through the project.

Each student will be assigned a TA-in-charge based on your topic. You can discuss with your TA-in-charge. BUT they will NOT help with debugging, thinking the main bulk of your idea, writing paper, etc. It is your own responsibility to conduct the WHOLE pipeline.

Proposal

Project discussion with your TA-in-charge on TBD's tutorial (It is optional to attend, and does not affect your scores).

Submit a proposal of 1-2 pages, including introduction to your main idea, survey of related works, and a tentative timeline.

Deadline: TBD

Final Report and Presentation

Submit a 4-page final report (template will be provided) before the presentation day.

Presentation will be scheduled between TBD and TBD.

Each student has 4 minutes of presentation and 1 minute Q&A.

For all inquiries:

(a)See the website
(b)Resort to your TA-in-charge