



Computer Vision Final Project

Spring 2022

Schedule

Week	Date	Topic
1	2/18	Introduction to human vision systems
2	2/25	Camera basic, image formation and basic Image processing
3	3/4	Feature detection and matching
4	3/11	Machine learning basics
5	3/18	Deep learning basics
6	3/25	Recognition
7	4/1	Segmentation
8	4/8	Projective Geometry
9	4/15	Estimation of Transformations
10	4/22	Single Camera Geometry/Camera calibration
11	4/29	Two-View Geometry
12	5/6	Dense motion estimation/stereo
13	5/13	Optical flow + object tracking
14	5/20	3D reconstruction/depth sensing
15	5/27	Structure from motion
16	6/3	端午節
17	6/10	Final project presentation
18	6/17	Final project presentation

Final Project

- Group final project: 30%
- Group based project, ≤ 3 people/group
- Two options
 - **Option 1:**
Light-Weight Facial Landmark Prediction Challenge

- **Option 2:**
Pupil Tracking

 *canzin*



Final Project Schedule

- Before 5/16: topic application
 - Fill the form on-line
 - <https://forms.gle/K6vQdFoNjBFg9Jy69>
 - Will announce the results on 5/18
- 6/17: Final presentation (check your calendar!)

Final Project Presentation (Tentative Schedule)

- Time: 6/17 13:30—17:30
 - 13:30—15:10 Microsoft Project
 - 15:10—15:30 Break
 - 15:30—17:30 Ganzin Project