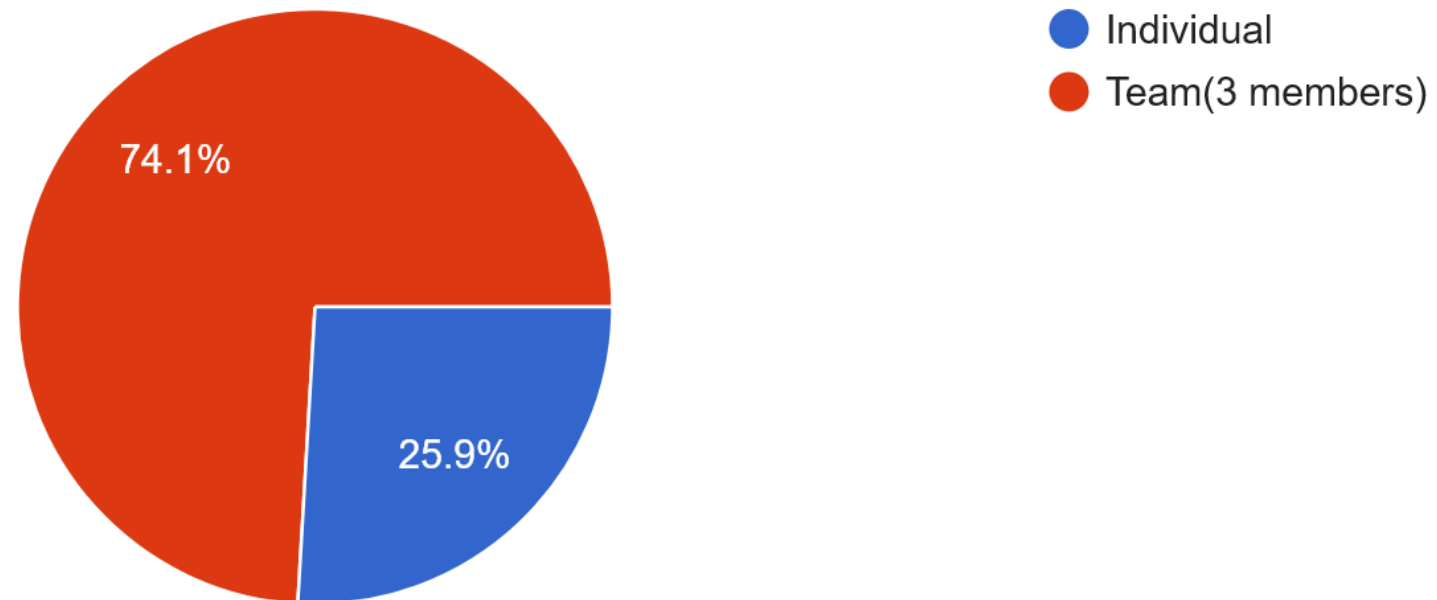


Please check your preference regarding whether you would like to proceed with the final project as an individual project or as a team project.

응답 27개



Project (Schedule)

- The project will be completed through single or team project (based on survey results).
- The process of the project is as follows:
 1. Topic survey
 2. Team selection
 3. Proposal presentation
 4. Final presentation

Topic survey

- To minimize confusion among students regarding the topics, the topics are limited to three tasks:
 1. 3D Reconstruction & Generation
 2. 3D Perception
 3. Pose estimation
- The topic survey is conducted via Google Sheets (will be announced to Blackboard).
- Due data: ~03/25

Topic 1. 3D Reconstruction & Generation

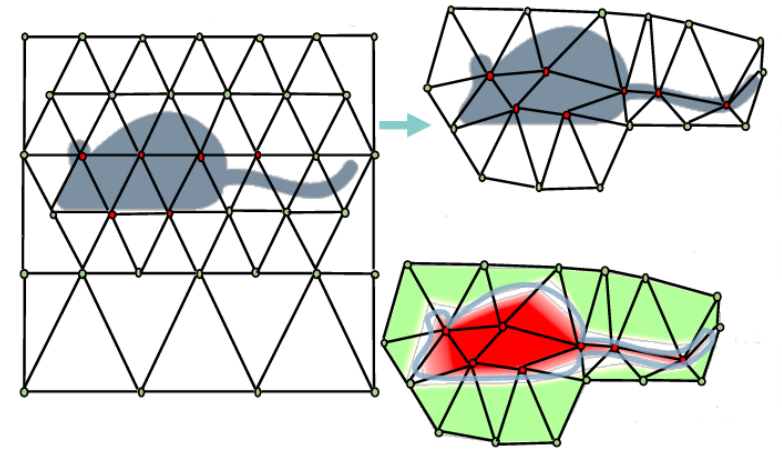
- NeRF, 3DGS, Object shape reconstruction, Scene reconstruction...



NeRF



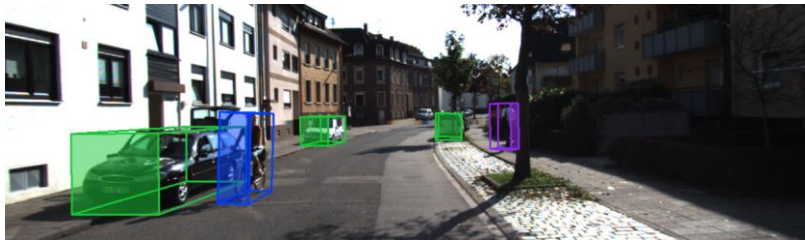
3D Gaussian Splatting



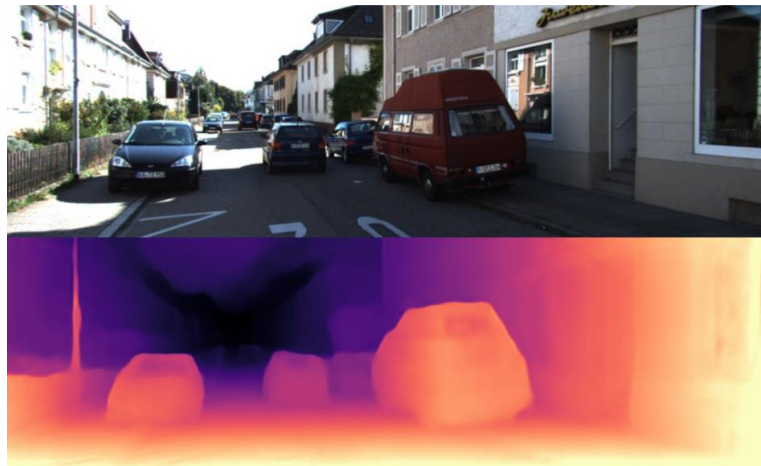
Deep Marching Tetrahedra

Topic 2. 3D Perception

- 3D Object detection, Depth estimation, Point cloud segmentation...



3D Object detection



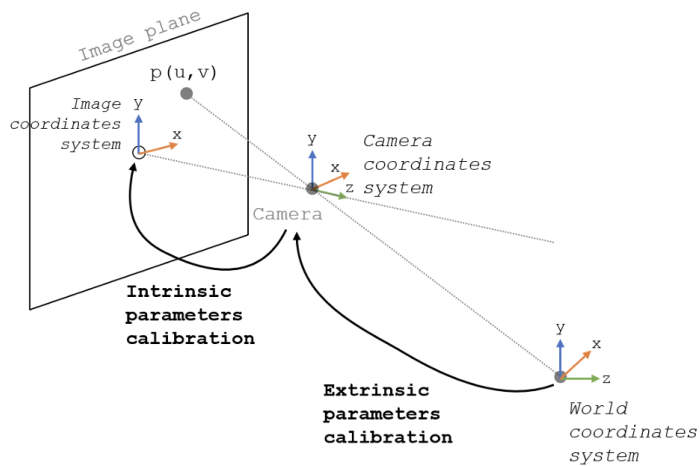
Depth estimation



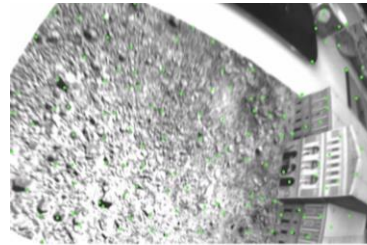
Point cloud segmentation

Topic 3. Pose Estimation

- Sensor calibration, Localization, SLAM...

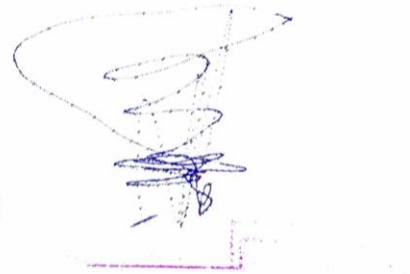


Sensor calibration

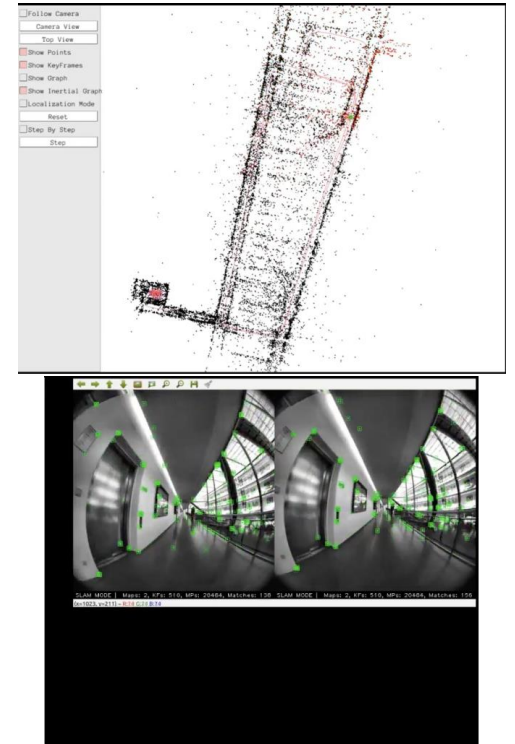


Robust to camera shaking

Realtime
Camera at 70fps



Localization



SLAM

Team

- The number of team members is up to 3 (max: 3).
- Students should form teams by freely contacting via email those students who have similar topics.
- Students who do not form a team randomly assigned to a team with fewer than 3 members.
- Due data: ~04/01