Lab Seminars

Youtube Links

- 3D Object Detection
- Ground Extraction
- VAE and LSTM
- Single Stage Object Detection
- Depth Completion
- Graph Attention Network
- SLAM
- Transformers
- Boundary Regularization
- Terrain Extraction (Review)

3D Object Detection

26-03-2021 Speaker Hungyju Lee

3D Object Detection Paper Focused

01-04-2021 Speaker Jacob Yoo

3D Object Detection Detailed Review

Ground Extraction

16-04-2021 Speaker Zhen Liu , Maryam Jameela

Papers:

Deep learning for geometric and semantic tasks in photogrammetry and remote sensing [https://doi.org/10.1080/10095020.2020.1718003]

Fully Convolutional Networks for Ground Classification from LIDAR Point Clouds [https://ui.adsabs.harvard.edu/link_gateway/2018ISPAn.IV2..231R/doi:10.5194/isprs-annals-IV-2-231-2018]

DEM Extraction from ALS Point Clouds in Forest Areas via Graph Convolution Network

[https://doi.org/10.3390/rs12010178]

GndNet: Fast Ground Plane Estimation and Point Cloud Segmentation for Autonomous Vehicles

[10.1109/IROS45743.2020.9340979]

VAE and LSTM

23-04-2020 Speaker Zahra Arjumandi

Single Stage Object Detection

30-04-2021 Speaker Brian Diep

Depth Completion

07-05-2021 Speaker Dr.Amin Alizadeh

Graph Attention Network

21-05-2021 Speaker Jacob Yoo

Youtube Link

SLAM

28-05- 2021 Speaker: Yujia Zhen

Transformers

04-06-2021 Speaker Afnan Ahmad

Boundary Regularization

11-06-2021 Speaker Muhammad Kamran

Terrain Extraction (Review)

18-06-2021 Speaker: Maryam Jameela