

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 Hungyu 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/2018ISPAAn.IV2..231R/doi:10.5194/isprs-annals-IV-2-231-2018]

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

[\[https://doi.org/10.3390/rs12010178\]](https://doi.org/10.3390/rs12010178)

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

[\[10.1109/IROS45743.2020.9340979\]](https://doi.org/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