

SIMING FAN

Personal Page(simon3dv.github.io)

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EDUCATION

University of Electronic Science and Technology of China(UESTC) *08.2017 - Present*
bachelor in Informational and Computing Science(Direction of Computer Science) Sichuan,China
School of Mathematical Sciences Weighted Average Mark: 88.13(rank 4/37)

RESEARCH

LIDAR/RGB-LIDAR 3D Object Detection *11.2018 - 11.2019*

Research on raw-point based method(frustum-pointnets, frustum-convnet and PointRCNN), instead of BEV-based and voxel-based method. Besides, research on embedding RGB information into point cloud feature(PointFusion, DenseFusion, PointPainting, ImVoteNet). Use Kitti 3D Object Detection Benchmark for evaluation.

First, reproduce PointNet in Pytorch, including pre-processing and visualization, which are not open-source. ([Blog](#))

Second, first person to reproduce frustum-pointnets in Pytorch, 10+ stars now. ([simon3dv/frustum-pointnets-pytorch](https://simon3dv.github.io/frustum-pointnets-pytorch))

Third, reproduce DenseFusion in frustum-convnet, improving accuracy from 85 to 86 in Kitti validation dataset. ([simon3dv/frustum-convnet](https://simon3dv.github.io/frustum-convnet))

LIDAR Unsupervised Domain Adaptive 3D Object Detection *11.2019 - Present*

Supervised by Professor [Mao Ye](#). In 2020.03, I created a domain adaptation dataset via existing dataset(Kitti to nuScenes). Now I am Using frustum-convnet and PointRCNN as baseline, and trying adversarial-based and reconstruction-base method. Part of my code is in [simon3dv/frustum-pointnets-pytorch](https://simon3dv.github.io/frustum-pointnets-pytorch) while others are private for the time being.

TECHNICAL STRENGTHS

C	3-year
Python	2-year
Pytorch	1-year
Matlab	1-year
Ubuntu	2-year
English	CET6 excellent(565)

EXTRA-CIRRICULAR

Third Prize in 2019 UESTC Mathematical Modeling Contest

Third Prize in 2018 UESTC Programming Contest Final

Third Prize in 2019 UESTC ACM Contest

SCHOLARSHIP

Excellent Student Scholarship(10% of the participants)