SIMING FAN

Personal Page
(+86)15818178828 ⋄ gzfansiming@gmail.com

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 embeding 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-prossesing and visulization, which are not open-source.(Blog)
Second, first person to reproduce frustum-pointnets in Pytorch, 10+ stars now.(simon3dv/frustum-pointnets-pytorch)
Third, reproduce DenseFusion in frustum-convnet, improving accuracy from 85 to 86 in Kitti validation dataset.(simon3dv/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 adversial-based and reconstruction-base method. Part of my code is in simon3dv/frustum-pointnets-pytorch while others are private for the time being.

TECHNICAL STRENGTHS

Language	C, Python, Matlab
Data Analysis & Machine Learning Framework	Pandas, Scikit-learn
Deep Learning Framework	Pytorch, Kears, Tensorflow
Image Processing	Opencv-Python, Matlab
Software & Tools	Unbuntu, Windows, MS Office, Latex
English	CET6 excellent(565)

EXTRA-CIRRUCULAR

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)