2019-05-第三周

`CASIA`

工作总结与安排

上周工作

- 使用MRCNN模型提取有用信息；
  - 使用MRCNN-COCO模型对验证集和测试集进行目标提取；
  - 使用MRCNN在train1数据上进行训练，编写训练程序；
- 研究nuScenes数据集
  - nuScenes arxiv
  - NUSCENES
  - nuscenes-devkit
- 准备中期资料

下周安排

- 使用MRCNN训练出的模型对kaggle测试集进行预测；
- 与王腾讨论并采用bagging思想对结果进行投票处理，提交并验证bagging结果；
- 整理中期资料：
  - 图像分割
    Fully Convolutional Networks for Semantic Segmentation (FCN)
    Mask R-CNN
    Fully Convolutional Instance-aware Semantic Segmentation(FCIS)
    FastFCN: Rethinking Dilated Convolution in the Backbone for Semantic Segmentation
    Learning Deconvolution Network for Semantic Segmentation
    Learning a Discriminative Feature Network for Semantic Segmentation

- 点云相关
  Stereo R-CNN based 3D Object Detection for Autonomous Driving
  PointRCNN: 3D Object Proposal Generation and Detection from Point Cloud
  Escape from Cells: Deep Kd-Networks for the Recognition of 3D Point Cloud Models
- 图卷积
  SEMI-SUPERVISED CLASSIFICATION WITH GRAPH CONVOLUTIONAL NETWORKS
  Learning Convolutional Neural Networks for Graphs
- ...