Weekly Progress Report

May 3-14th, 2021

Presented by Yannis (Yiming) He 84189287

Noah's Ark | Autonomous Driving Lab
LiDAR Domain Adaptation

Manager: Bingbing Liu 00435285
Supervisor: Eduardo Corral Soto 00407762

HUAWEI

- May 3rd (Mon)
    - Set up accounts
        - Dayforce
        - Laptop
        - Orientation
        - Finished training for new hires
    - Waiting for next steps from Bingbing Liu
    - Find research paper
        - Deep Domain Adaptation: A survey
        - Semantic Segmentation Survey
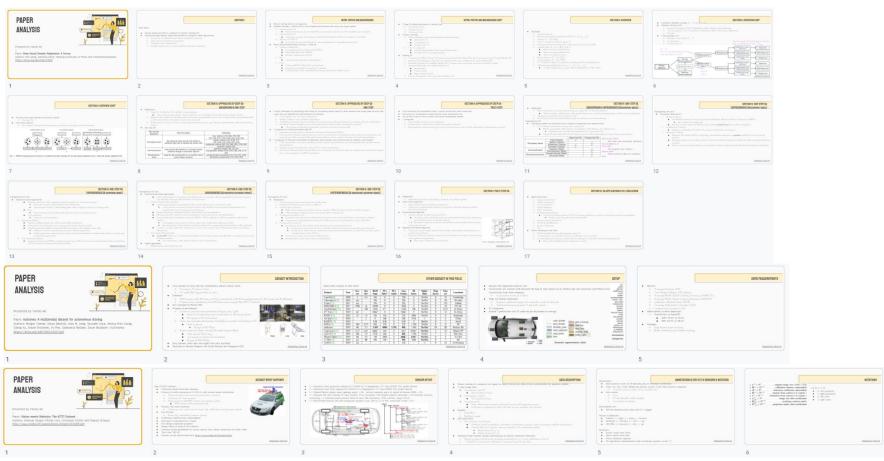
- May 4th (Tue)
  - Completed
    - Select Domain Adaptation team
    - Meet with Eduardo from 3-4pm
      - Intro to ADL
      - Intro to Domain Adaptation
  - To do:
    - Read papers:
      - Deep DA survey
      - KITTI Paper
      - Isola image to image paper
      - CycleGAN paper
      - LiDAR few-shot DA via integrated CycleGAN and 3D obj detect
    - View Dataset
      - KITTI
      - NuScence
    - Request for Gitlab and servers
    - Figure out who is my mentor

HUAWEI

- May 5th (Wed)
    - Stand up meeting 9-10am
    - Get gitlab access
        - Weekly report
        - Lcpss
        - Udass
    - Read papers: deep visual DA: a survey
        - Make reading analysis
- May 6th & 7th (Thur, Fri):
    - Standup meeting 9-10am
    - Read and finished reading the Survey and finish paper analysis
- May 10th (Mon):
    - Read and make paper analysis for KITTI dataset paper
- May 11th (Tue):
    - Read and make paper analysis for nuScenes dataset paper
- May 12th (Wed)
    - view weekly report
        - Bingbing:
            - Big_perception.v0.1.pptx
            - Kyber_Lidar_Perception_plan_2019_v0.3English.pptx
            - LP2020_v3.pptx
        - Eduardo:
            -
    - Edit research analysis and add TODO papers
        - Papers listed in kyber-perception > Wiki > LiDAR Domain Adaptation Papers
    - Read kyber-perception > Wiki > Domain Adaptation Goals

Paper Analysis Screenshot (part of the notes):

- May 13, 14th (Thur, Friday)
    - Reading
        - Domain_Adaptation_NCRN_2021_Presentation.pdf | Eduardo
        - Weekly Report - Eduardo:
            - Content > General
            - Update Slides
                - Updated Plans: LiDAR_CycleGAN_plan_Aug_2020.pdf
                - Update_May_3_2021.pdf
                - Update_Apr_26_2021.pdf
        - Weekly Report - Amir
            - intro.pptx
            - report-April-30-2021.pptx
        - Domain Adaptation Blog（Chinese sources)
            - https://blog.csdn.net/ltochange/article/details/78773476
            - https://baike.baidu.com/item/%E9%A2%86%E5%9F%9F%E8%87%AA%E9%80%82%E5%BA%94/22778550?fr=aladdin
            - https://zhuanlan.zhihu.com/p/50710267

End of May 14th, Weekly Report

Weekly Progress Report

May 17th, 2021

<u>Presented by Yannis (Yiming) He 84189287</u>

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Manager: Bingbing Liu 00435285
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- May 17 (Monday)
    - Confirmed sub-topic (mentor: Eduardo)
    - Setting up gitlab for weekly report
    - Getting access to GPU server (talk to Arash)
    - Discuss with Eduardo for next step
        - Waiting for access to GPU server. In the meantime:
            - Read CycleGAN paper again
            - Read CycCADA paper
        - Once GPU server is setup
            - meet Eduardo again
                - Copy his data
                - Hear the explanation for CycCADA architectures
                - Investigate issue behind multiGPU
- May 18 (Tuesday):
    - Finished reading CycleGAN with Paper reading analysis
    - Attend NCRN day 1
    - Contact Arash for server setup
    - Start reading CycCADA