Weekly Progress Report

June 7-11th, 2021

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Noah's Ark | Autonomous Driving Lab
LiDAR Domain Adaptation

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- June 7th (Monday):
  - (running progress: lcpss STEP1) ~~(running on GPU4)~~ (finished)
  - Finished udass STEP2
  - Run Cycada STEP3 using data generated by udass (finished) (Appendix 2)
    - Visual run on port *localhost:9100*
  - AODA Training
- June 8th (Tuesday)
  - Record experiments and list experiment to be done
  - Run experiment: 4GPU with 1 batch (running on GPU 4,5,6,7, using docker 5)
    - visualization using docker 6
  - Draw block diagram for lcpss pipeline
- June 9th (Wednesday)
  - Finish lcpss pipeline block diagram
  - STEP2 for udass(where STEP1 used 4 GPU) (Step 1 not finished yet)
  - Learning Voxelization:
    - https://www.youtube.com/watch?v=PL6wD8jczkE&ab_channel=ThomasFrankThomasFrankVerified
    - https://www.youtube.com/watch?v=ctdi4Fjp_50&ab_channel=HenryAILabs
    - https://www.youtube.com/watch?v=vfL6uJYFrp4&ab_channel=SULabUCSanDiego

- June 10 (Thursday)
    - Organizing notes/questions about lcpss
    - Talk to Eduardo for questions related to lcpss
    - Talk to Arash about Server (still waiting for my own server…)
        - Many experiment is waiting to be done
    - Research towards how multiGPU/multi-thread works for parameters update (forward, backward, etc)
- June 11 (Friday)
    - Compare lcpss and udass training
    - Paper reading session (2:30 pm)
    - Check if udass using 4 GPU (STEP1) is finished.
        - If so, start STEP2
    - Current issue facing:
        - Lack of GPU to do experiment
        - Each experiments takes long time and have to do them in series due to the lack of GPU
            - Each experiment takes around 1 week…
                - Hard to make changes and see improvement

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End of June 11th, Weekly Report