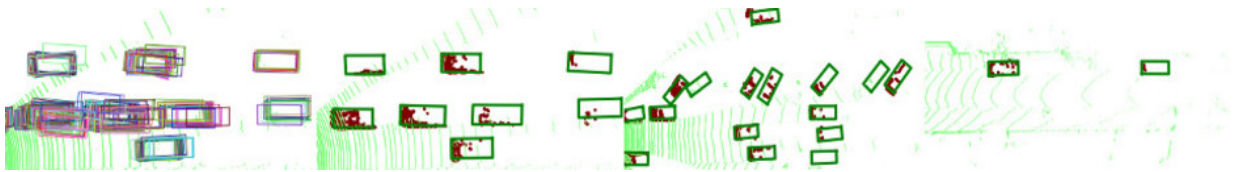


Master Thesis / Bachelor Thesis (2019)

Realistic Vehicle Behavior in CARLA simulator Using Deep Learning



The thesis is composed of three main goals:

1. Analyze existing datasets to calculate vehicle behavior parameters (linear and lateral acceleration, speed, distance ahead).
2. Given the analysed data, apply a deep learning clustering method to model vehicle behavior.
3. Replicate vehicles modeled from the datasets into CARLA simulator to create realistic vehicle behavior in the simulator.



We are happy to answer questions regarding the topic, reference literature or alternative topics. In this case please contact the supervisor below for further information.

Requirements: Knowledge of Python or C++
Knowledge of Machine Learning methods
Independent, diligent and structured way of working

Keywords: CARLA, vehicle detection, deep learning

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