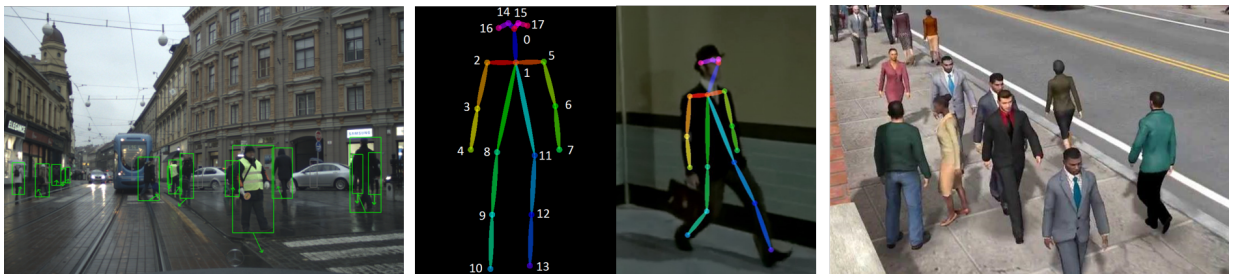
Karlsruhe Institute of Technology (KIT)
Institute of Measurement and Control
Prof. Dr.-Ing. C. Stiller

Master Thesis / Bachelor Thesis (2019)

Realistic Pedestrian Behavior in CARLA simulator Using Deep Learning



The thesis is composed of three main goals:

1. Detect human skeleton pose in existing datasets.
2. Extract pedestrian behavior parameters using skeleton (velocity, acceleration, turn rate, head pose).
3. Replicate pedestrians modeled from the datasets into CARLA simulator to create realistic pedestrian 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, pedestrian detection, deep learning
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