Research Master | Generative Pose Pipeline

Description

- By deeply understanding and accurately predicting the interaction between autonomous vehicles and vulnerable road users (VRUs), we can create a future mobility where pedestrians, cyclists, and other road users feel safer and are seamlessly integrated into the transportation ecosystem.
- Therefore, the Intelligent Vehicles (IV)-Lab is looking for a Research Master (m/f/d) to support research in the field of autonomous driving starting in the coming winter semester.

Your Project

- Set up a generative pipeline to create various poses for VRUs (e.g. pedestrians and cyclists) to various topics, for both general and edge cases
- Use VR tools to record poses, e.g. HTC-Vive or a motion capture suit
- Create an HMI through LLMs to use human input for the pipeline
- **Goal**: A pipeline that can create a set of poses of VRU’s accurate to the textual input

Your Profile

- Willingness to learn and interest in the topic of autonomous driving
- Ability to work independently, conscientiously, and accurately
- Previous experience with Python is required
- Previous experiences with Linux, Bash, and git are a plus

What we offer

- Gaining first experiences in one of the most promising technical fields of modern times
- Guidance and tailored lectures across multiple universities in Munich
- Supervision and close cooperation with a PhD candidate in the corresponding field
- Optional extension to an SHK-position with flat-rate payment

Does this appeal to you? Are you interested in the field of autonomous driving? Then reach out to us via mail and send a short introduction, your current grade report, and a cv with a photo.