



AVL- PASSION AND RESULTS

AVL is the world's largest privately owned company for development, simulation and testing technology of powertrains (hybrid, combustion engines, transmission, electric drive, batteries and software) for passenger cars, trucks and large engines.

Thesis work – Autonomous drive

Background

In the future we will see an increased automation of vehicles and we want to explore this area and the technologies.

What

The purpose of the thesis is to autonomously control the lateral and longitudinal acceleration of a simulated vehicle. By the use of image data and detection of objects and classification using convolutional neural networks.

How

- Choose simulation environment
- Define scalable functional architecture
- Implement the functionality

When

Winter/spring 2018

Tools

Python, openCV

Candidates

Suitable candidates are M.Sc. students within electrical engineering, vehicle engineering or engineering physics with a good understanding of modelling and simulations.

Contact

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