



AI-Based Interaction in Autonomous Vehicles

Open Bachelor/Master Thesis

Background

Highly automated vehicles are about to be introduced at least for some use cases. Such vehicles will then become players in socio-technical systems involving pedestrians and other human drivers. However, most research has gone into technical solutions without special regard to the other players. Users will be able to engage in a variety of non-driving related activities. Additionally, through the usage of novel sensors (cameras, radar, ...), novel intuitive interaction concepts are possible.

Research Goal

The aim of this thesis is to conceptualize and test AI-based interaction in autonomous vehicles. A related work research should be conducted and interdisciplinary and information science approaches should be considered.

A prototype should be designed and implemented that investigates several of these aspects. Finally, the defined hypothesis should be evaluated by conducting a study.

Based on bachelor/master level the scope is adapted.

Mark Colley
Institute of Media Informatics
O27 / 3303
uulm.de?mcolley

mark.colley@uni-ulm.de

