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Information needs in Highly Automated Driving

Open Bachelor/Master Thesis

Background

Highly automated vehicles are about to be introduced at least for some use cases. The role of the human driver will then change fundamentally. He will become a supervisor or, in higher automation levels, will only rarely have to take part in the driving task. This will allow the human driver to engage in other activities such as reading, talking or working.

Research Goal

The aim of this thesis is to investigate which information needs there are in the case of highly automated driving when no actual involvement of the human driver is needed. A related work research should be conducted and interdisciplinary, learning psychological, didactic 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.

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