



Makes Perfect Scents – Olfactory Experiences in Vehicles

Open Bachelor/Master Thesis

Background

Scents can be effectively deployed within the sealed vehicle space, e.g., by the air conditioning or spatially distributed scent boxes. Nice-smelling scents can be used to create a well-being ambiance or specific scents can convey a message to the passengers. In an automated vehicle, such scents may be used to, e.g., create a sense of emergency in a planned takeover situation, mitigate motion sickness symptoms, or signalize the current automation state, where a pleasant smell may mean that everything is working. Still, such olfactory experiences should be evaluated regarding their usability.

Research Goal

This thesis aims to investigate how scents can be (non-invasively) utilized within vehicles. A related work research should be conducted. A prototype should be designed and implemented. Finally, the defined hypothesis should be evaluated by conducting a study.

Based on bachelor/master level
the scope is adapted.

Pascal Jansen
Institute of Media Informatics
O27 / 336
uulm.de?pjansen

pascal.jansen@uni-ulm.de



Images:

<https://www.autonews.com/article/20180714/OEM06/180719876/adding-scents-to-prevent-carsickness>

<https://blog.hgregoire.com/en/little-story-of-the-tree-car-freshener>