



Augmented Reality Window Parking Assistant

Open Bachelor/Master Thesis

Background

While fully autonomous parking already exists, it is far from replacing manual parking. Therefore, parking assistants, such as displays or warning sounds, remain prevalent in modern vehicles. However, such assistance might be unspecific (sounds) or requires the driver to look away (on a center console display). Instead, by displaying information on the vehicle's windows, the driver can maintain an overview of the surroundings without having an obstructed view. However, it is unknown which and how to visualize objects in the surroundings and which information is necessary (e.g., distances in meters).

Research Goal

The aim of this thesis is to investigate the feasibility of an augmented reality window parking assistant. A related work research should be conducted and a prototype in virtual reality 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.

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