Task Description

In order to guarantee the safe driveability of planned trajectories in automated vehicles, a multi-layer safety concept is being developed. With the aim of detecting errors in the first steps of sensor data acquisition and processing, a plausibility check of the vehicle sensor data will be carried out first. Within the scope of this work, methodologies for data plausibility checks of environment sensors are to be developed. In particular, the question is focused on the extent to which conclusions about the trustworthiness of individual sensors can be drawn from merged sensor data.

Task Details

- Research on existing approaches
- Development of a methodology for plausibility checks of merged environment sensor data
- Test and evaluation of the methodology on the basis of defined criteria

Requirements

- Knowledge in environmental sensors preferable (lecture MAA)
- Independent and structured way of working
- Motivation and reliability

NOTICE: All projects and theses at FZD can be done in English or German, as preferred.
ANMERKUNG: Alle Projekte und Arbeiten bei FZD können wahlweise in Englisch oder Deutsch durchgeführt werden.