Master thesis in the UNICARagil project

Generation of valid trajectories for the individual testing of a trajectory tracking control

For individual testing of the trajectory tracking controller in the research project UNICARagil it is necessary to generate input data independent of other components. For this purpose, different possibilities for trajectory generation will be investigated. Based on the validity in comparison to the trajectories calculated in the vehicle, a method shall be selected and implemented exemplarily, so that trajectories are available for the virtual test.

Tasks:
- Development and analysis of methods for trajectory generation
- Justified choice of one of the methods
- Generation of trajectories for virtual testing
- Examination of the transfer of the method for other use-cases

Requirements:
- Basic knowledge of automated driving
- Structured working
- Experience in Matlab

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Quelle: Li, Xiaohui et al. “A unified approach to local trajectory planning and control.”

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.
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