With 11,500 employees worldwide, AVL is the world's largest independent company for the development, simulation and testing of powertrain systems (hybrid, combustion engine, transmission, electric drive, batteries, fuel cell and control technology) for passenger cars, commercial vehicles, construction, large engines and their integration into the vehicle.

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Influence of the operating strategy of hybrid vehicles on RDE – Trade-off driveability versus emissions

Description

Due to the increasingly stringent certification procedures - stipulated by Euro 6 and co. - renowned automotive manufacturers are forced to prioritize the reduction of fuel consumption and emissions in view of the opposing dependency of driveability and emissions. The aim of this thesis is to show the difference between an operating strategy with increased drivability and a supposedly more economical strategy, which, however, can result in the loss of any driving pleasure. Step one is to determine these functions, create two datasets. One dataset represents the focus on drivability and the other on efficiency. In a SiL (Software in the Loop) setup the datasets should be compared in a virtual RDE cycle.

FIELDS OF STUDY
- Mechanical Engineering
- Electrical Engineering
- Mechatronics
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