Objective and transparent analysis of vehicle attributes

AVL-DRIVE™ APPLICATION

The AVL-DRIVE™ measurement system captures various sensor and CAN bus signals, such as longitudinal acceleration, engine speed, vehicle speed, pedal positions and vibrations. These input quantities are collected by the DMU (DRIVE Main Unit) and passed on to the AVL-DRIVE™ software for further processing and analysis. Additionally, AVL-DRIVE™ is capable to work in conjunction with selected third-party measurement equipment.

Over 100 different driving modes for driveability, ride comfort, handling and ADAS (e.g. part load acceleration, tip in after closed pedal, down shift after kickdown, TOF-Approach, Cut-in) are detected automatically and more than 450 criteria are rated in real-time.

A profound data analysis is accelerated by means of a graphical representation of the test results. This helps engineers to quickly identify deviations from target values and take appropriate actions. Furthermore, the AVL-DRIVE™ software provides a comprehensive analysis of test results, including statistical trend analysis, frequency analysis, and comparative reports. The automatic generation of reports in combination with an automatic creation of benchmark libraries is key to the fast communication of test results.

Based on a benchmark analysis, quality targets for vehicle attributes are defined and used as a reference to provide targets for the evaluation of these driving attributes at all stages within the development process (definition of quality gates, target driven development).

Frontloading of driving attributes development activities from early road testing to simulation and computer-based optimization helps to reduce overall development time and costs. This is achieved by integrating AVL-DRIVE™ with AVL VSM™, AVL PUMA Open™ and AVL CAMEO™ for a closed loop optimization process.
Combine your strong team flexibly out of compatible, complementary players to meet your needs.

www.avl.com/meet-the-team

AVL Team SUITE™
SUCCESS BASED ON INTERPLAY

THE ADDED VALUE

Fast
Objective and automated real-time assessment provides instant feedback on driving attributes quality issues.

Efficient
Fast driving attributes assessment in combination with automatic report generation encourages target driven development.

Universal
Common language between development areas, management and within the supply chain.

Consistent
Reproducible assessment of driving attributes based on measured physical values.

Flexibale
AVL-DRIVE™ for all phases of the development process, from simulation to on-road vehicle testing.

Human-centric approach
Already at very early stages of the development process our focus is on the end user’s expectations when driving a vehicle.

AVL-DRIVE™ – Drive your brand DNA

THE AVL SOLUTION PACKAGE

AVL Services
• AVL-DRIVE™ system support and maintenance
• AVL-DRIVE™ system calibration and user training
• AVL-DRIVE™ vehicle benchmarking and target setting

AVL STRENGTHS
• Vehicle Benchmarking based on extensive database for comparison of vehicle attributes with market competitors
• Possibility of vehicle attributes assessment with AVL-DRIVE™ and AVL VSM™ in any number of development phases and parallel projects
• Experience spanning for balanced vehicle attributes
• Internal strong cooperation between development areas, management and within the supply chain

FIND OUT MORE:
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