Big Data Management Platform for ADAS/AD

Fully Exploit the Value of Your Test Drive and Simulation Data

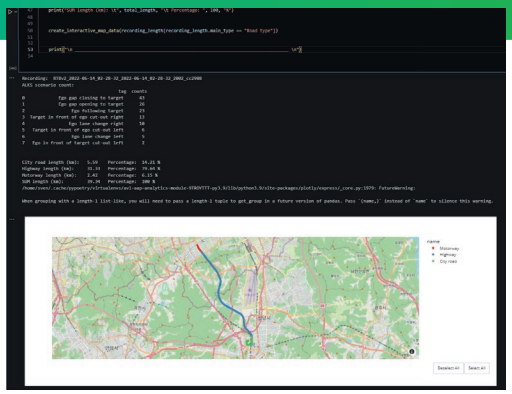
During the development, verification, and validation of complex automated driving functions, a huge amount of data from cameras, LiDARs, and other sensor types is generated from road testing, vehicle and component testbeds, or simulations.

The measurement data gathered over several projects – and sometimes several years – becomes an asset if the content can be exploited. For that, one needs the ability to query via simple interfaces, view and analyze the data store in a highly interactive way, with low latency.

SEAMLESS INTEGRATION OF YOUR DATA WITH OUR OPEN SOLUTION

To address these challenges, AVL provides an open and seamless solution to analyze typical data sources used in Advanced Driver Assistance Systems (ADAS) and Automated Driving (AD) applications, such as image, point cloud, object lists, etc., in both raw and multiple processed representations.

For visualization of your recorded data the **Scenario Viewer** can be used to show detected objects, lines, camera images, etc.



Access your whole data via the **Jupyter Notebook Integration** to calculate your metrics and perform KPI evaluations.

AUTOMATED, SCALABLE ANALYTICS FOR KPI-DRIVEN INSIGHTS ACROSS COLLECTED MEASUREMENT DATA

A key feature is the automated and highly scalable execution of analytic scripts on a large set of measurements including time series and object data.

With this set of features, complex operations on large amounts of recordings can be developed and repeatedly processed, for example, so that your own or pre-defined metrics can be calculated to generate reports containing multiple key performance indicators (KPIs) on the entire historical data, residing in the data storage.

INTUITIVE EVENT NAVIGATION WITH PLAYBACK FOR ANALYSIS

You can navigate to events of interest with a simple click and get a synchronized view showing the camera data of the test drive (e.g., front and back camera), the time series captured on the vehicle bus, and the object data from different perspectives, such as bird's-eye view.

AVAILABLE PREPARED WORKFLOWS

Compare data of object list sources
Export data for other development tasks
Detect known scenarios
Prepare replay data
Select routes for open road testing
Open road testing of NCAP, UNR, etc.

YOUR VALUE

- Gain insights from **one single source of truth** for all ADAS/AD testing data, independent from the source of creation
- **Reduce the number of required test drives** by finding relevant events in your existing data set
- **Keep your benchmarks up-to-date** by applying newly defined KPIs on your entire collected data set
- Improve your productivity by **reducing the search time** for the relevant data

AVL List GmbH
Hans-List-Platz 1
8020 Graz
Austria

Phone +43 316 787-0
E-mail aap@avl.com
www.avl.com