VERIFICATION VALIDATION METHODS

PROJECT of the PEGASUS FAMILY
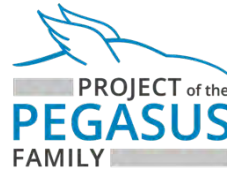

Dear readers,

Welcome to the fourth edition of the VVM Newsletter! Our newsletter will keep you up to date on recent developments in the project as well as upcoming events and new publications.

This newsletter will give you some insights into an exciting upcoming event: Our sister project SET Level draws to a close. In this newsletter you can learn more about SET Level's final presentation, the project results and what they mean for VVM.

Two other articles shed light on the progress concerning methods developed in the project: the Phenomen-Signal-Model, the Semantic Norm Behaviour Analysis as well as the Criticality Analysis.

We hope, you will enjoy the newsletter and we are always happy to hear your feedback and suggestions.

The VVM editorial team

Highlight

VVM's sister project SetLevel concludes with final presentation

As part of the PEGASUS Family, the project SetLevel delivers important results concerning procedures and toolchains for simulation-based development and testing. Those results also play an important for VV Methods. SET Level now reaches the finish line and will present the results in its final presentation.

Read more

News
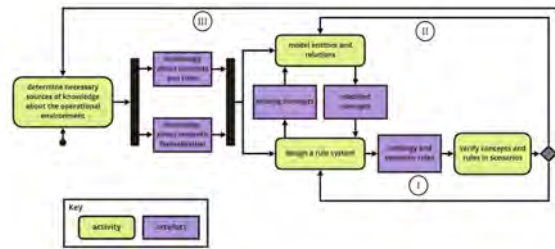
Two new methods presented in publications

To safeguard autonomous driving systems, it is necessary to know the operational environment in detail and to be able to analyze it. To this end, two new methods were developed in the project that address the stakeholder concerns with regard to the behavior of an automated vehicle in the operational domain.

Read more

New updates from the Criticality Analysis

After publishing the concept paper on the VVM criticality analysis in 2021, research efforts have been focused on the details of the individual steps of the process. In this regard, several publications related to the concept of the criticality analysis have been published since then.

Read more

New article in ATZ Worldwide presents VVM

A new article, that was exclusively published in the Automobiltechnische Zeitung (ATZ worldwide) gives a general overview over the goals, motivations and the approach of VVM.

Link to article
published in ATZ worldwide I Issue 9/2022

Numbers, please!

The number of vehicles could decrease by **4/5** due to autonomous forms of mobility, according to a simulation by the University of Gothenburg.

Upcoming Events

OSS.5 Europe
28-30 September
Find out more

Auto.AI Europe
28-30 September
Find out more

SET Level Final Presentation
11-12 October
Find out more

3rd Autonomous Vehicle Vision Workshop - ECCV 2022
23 October
Find out more

SAIAD - ECCV 2022
24 October
Find out more

Tech.AD
13-15 November
Find out more

Car.HMI
13-15 November
Find out more

ICECCME 2022
16-18 November
Find out more

Publications

Using Ontologies for the Formalization and Recognition of Criticality for Automated Driving
Lukas Westhofen, Dr. Christian Neurohr, Martin Butz, Maike Scholtes, Michael Schuldes
Read more

Contributions of VVM to the safety assurance of ADS – insights on specifying behavior and capabilities
Nayel Fabian Salem, Veronica Haber
Read more

Safeguarding Methods for Complex Traffic Scenarios to Release Automated Driving Functions
Roland Galbas, Jan Reich, Helmut Schittenhelm, Nicolas Wagener
Read more

Measuring the Influence of Environmental Conditions on Automotive Lidar Sensors
Clemens Linnhoff, Kristof Hofrichter, Lukas Elster, Philipp Rosenberger, Hermann Winner
Read more

Contact us for comments & feedback

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