



**VERIFICATION
VALIDATION
METHODS**



Dear readers,

Welcome to the first edition of the VVM Newsletter! With this newsletter, we will inform you regularly about project updates, upcoming events and new publications.

In the first newsletter, we want to focus on an introduction to VVM: What are the project's goals? What is the current state? In an interview with the two project coordinators, Roland Galbas of Bosch and Mark Schiement of BMW, you will learn about current developments and challenges and their vision for the next months.

Further news focus on the VVM participation at the ITS World Congress, the new AVL test vehicle presented at the tech.AD and on the context of the Pegasus project family.

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

The VVM editorial team

Highlight



Interview: How VVM helps to implement automated driving

Automated driving functions should work safely and reliably to be used in our streets. The verification and validation of these functions play a key role in this. The project VVM has set itself the goal of developing this proof of safety in the urban environment. In this interview, the coordinators Roland Galbas (Bosch) and Dr. Mark Schiementz (BMW) report on the current status and progress of the project.

[Read more](#)

News



On tour on the ITS World Congress

On October 11-15, the ITS World Congress welcomed numerous visitors with a full program centering on smart mobility. VVM took part with the session “Tools and methods for validation and deployment of automated driving”.

[Read more](#)



Test vehicle presented at Tech.AD

With the completion and presentation of the VVM test vehicle, another important step in the project has been accomplished. At the beginning of July, the vehicle was presented at the Tech.AD Europe in Berlin.

[Read more](#)



VVM as part of the PEGASUS family

The PEGASUS project, which ran from 2016 to 2019, was an important starting point on the way to deploy automated driving. In order to continue the results obtained in PEGASUS, two follow-up projects were subsequently developed: VVM and SET Level.

[Read more](#)

Numbers, please!



264.000

accidents with personal injury occurred in 2020. One of the aims of automated driving functions is to reduce this number.

Upcoming Events

Pegasus Expert Workshop

10 February

[More information soon on our website](#)

European Microwave Week

13-18 February

[Find out more](#)

VVM Virtual mid-term event

15-16 March

[More information soon on our website](#)

Publications

Refining Object-Based Lidar Sensor Modeling — Challenging Ray Tracing as the Magic Bullet

Clemens Linnhoff, Philipp Rosenberger, Hermann Winner

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Towards Serious Perception Sensor Simulation for Safety Validation of Automated Driving - A Collaborative Method to Specify Sensor Models

Clemens Linnhoff, Philipp Rosenberger, Simon Schmidt, Lukas Elster, Rainer Stark, and Hermann Winner

[Read more](#)

Towards Threat Metric Evaluation in Complex Urban Scenarios

Patrik Schneider, Martin Butz, Christian Heinzemann, Jens Oehlerking, Matthias Woehrle

[Read more](#)

A Benchmark for Spray from Nearby Cutting Vehicles

Stefanie Walz, Mario Bijelic, Florian Kraus, Werner Ritter, Martin Simon, Igor Doric

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Contact us for comments & feedback

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