

Montag 31.03.2025

13:00 **Eintreffen Teilnehmer, Snacks & Kaffee**

14:00 **Begrüßung**

Perzeption

Moderation: Klaus Dietmayer

14:15 **Adversarial Defense Teacher for Cross-Domain Object Detection under Poor Visibility Conditions**

K. Wang, Y. Shen, M. Lauer
MRT, KIT

14:40 **Towards Efficient LiDAR-Based Perception in Autonomous Driving: Exploiting Point Cloud Sub-sampling and Camera-based Prior Knowledge**

M. Schön, M. Kösel, K. Dietmayer, M. Buchholz
MRM, Uni Ulm

15:05 **Potentials of Neuromorphic Computing for Automated Driving and Future Transportation Systems**

L. Bayerlein, J. Schulte, S. Peters
FZD, TU Darmstadt

15:30 **Kaffeepause**

Absicherung

Moderation: Markus Maurer

16:00 **Towards Safety Aware AI Agents**

T. Steinecker, T. Lüttel, M. Mählich
UniBw München

16:25 **Enhancing Highway Safety: The TUM Traffic Accident Dataset**

W. Zimmer, R. Greer, X. Zhou, R. Song, M. Pavel, D. Lehmborg, A. Ghita, A. Gopalkrishnan, M. Trivedi, A. Knoll
AIR, TUM

Montag 31.03.2025

16:50 **Toward the Definition of Competent Driving for the Assessment of Automated Driving Systems**

J. Plaum, A. Tejada, J. Günther, E. Sax
Torc Europe

17:15 **Preisverleihungen**

Moderation: Lutz Eckstein

Verleihung Uni-DAS Wissenschaftspreis

Laudation und Vortrag des Preisträgers

Verleihung des ADAS Awards

Laudatio: Steven Peters

19:00 **Gemeinsames Abendessen**

Dienstag 01.04.2025

Human Factors

Moderation: Klaus Bengler

9:00 **Design Recommendations for Operation Center HMIs in Automated Fleet Operations: A Field Study from the Campus FreeCity Project**

S. Schwindt-Drews, B. Abendroth
IAD, TU Darmstadt

9:25 **Central Research Questions for Driver Take Overs in SAE Level 4 Automated Driving**

M. Schäffer, W. Remlinger
IKTD, Uni Stuttgart

09:50 **Impact of Lateral Acceleration on Motion Sickness in Automated Driving**

M. Hess, C. Bohn, A. Seiffer, S. Hohmann
IRS, KIT

10:15 **Kaffeepause**

Dienstag 01.04.2025

Entwicklungsprozesse

Moderation: Mirko Mählich

10:45 **Taxonomy of Scenarios in Systems Engineering Activities**

A. Dayan, C. Patz, R. Zöllner
Valeo

11:10 **V-model-based Refactoring of an Automated Valet Parking System**

M. A. Mejri, F. Meyer, M. Westendorf, M. Kascha, S. Thal, R. Henze
IAE, TU Braunschweig

11:35 **Towards Closing the Gap between Model-Based Systems Engineering and Automated Vehicle Assurance**

M. Nolte, M. Maurer
IFR, TU Braunschweig

12:00 **Event Detection in C-ITS: Classification, Use Cases and Reference Implementation**

L. Reiher, B. Lampe, L. Zanger, T. Woopen, L. Eckstein
ika, RWTH Aachen

12:25 **Gastvortrag**

Speaker: Felix Heide, Princeton University
Moderation: Christoph Stiller

13:00 **Gemeinsames Mittagessen**

14:00 **Workshop**

Moderation: Mirko Mählich
Parallel Kaffeepause

17:00 **Ergebnisse der Arbeitsgruppen**

Moderation: Christoph Stiller

19:00 **Gemeinsames Abendessen**

Mittwoch 02.04.2025

Planung I

Moderation: Christoph Stiller

- 8:30 **Modified BEVFormer Architecture with Multiscale Cross-Attention**
T. Herd, P. Heidenreich, C. Stiller
Stellantis
- 8:55 **Accelerated Dynamic Programming for Trajectory Planning**
J. Ruof, K. Dietmayer
MRM, Uni Ulm
- 09:20 **Generation of Training Data from HD Maps in the Lanelet2 Framework**
F. Immel, R. Fehler, F. Bieder, C. Stiller
FZI
- 09:45 **Improving Out-of-Distribution Generalization of Trajectory Prediction via Polynomial Representations**
Y. Yao, S. Yan, D. Göhring, W. Burgard, J. Reichardt
Continental
- 10:10 **Kaffeepause**
- Planung II**
Moderation: Lutz Eckstein
- 10:30 **Promoting Level Compliant Behavior in Automated Vehicles: Evaluation of an AI based Solution**
C. Hellert, R. Hota, S. Weiß
Continental
- 10:55 **A Unified Self-Assessment Framework for AD Stacks Using Subjective Logic**
T. Wodtke, T. Griebel, M. Buchholz, K. Dietmayer
MRM, Uni Ulm

Mittwoch 02.04.2025

- 11:20 **Designing Multi-Driver Interaction Scenarios in Connected Driving Simulators: Technical Challenges and Solutions for Naturalistic Social Interaction**
T. Tang, A. Moreno, N. Grabbe, K. Bengler
TUM
- 11:45 **Conditional Prediction by Simulation for Automated Driving**
F. Konstantinidis, M. Sackmann, U. Hofmann, C. Stiller
CARIAD
- 12:10 **Abschlussdiskussion und Aufruf FAS-Workshop 2026**
- 12:30 **Best-Paper Award**
Moderation: Klaus Dietmayer
- 13:00 **Gemeinsames Mittagessen**
- 14:00 **Ende des Workshops**

**16. Workshop
Fahrerassistenz und
automatisiertes Fahren**

Uni-DAS

Ein Workshop des **Uni-DAS e.V.**

Organisation 2025
Prof. Dr. Steven Peters
Prof. Dr. Klaus Bengler



**16. Workshop
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FAS 2025

Programm

Stand 28.10.2024

31.03. – 02.04.2025

Kloster Irsee

Uni-DAS
