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Research interests

Vehicle dynamics
Automated driving
Human-Machine-Interaction
Active, passive and integrated vehicle safety
Suspension Systems

Research outputs

Benchmarking Large Language Models for Motorway Driving Scenario Understanding

Zhou, J., Zhao, Y., Yang, A. & Eichberger, A., 21 Feb 2025, *2024 International Conference on Smart Transportation Interdisciplinary Studies*. SAE Technical Paper, 10 p.

Vehicle-in-the-Loop am Prüfstand für automatisiertes Fahren

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Decision-Making Policy for Autonomous Vehicles on Highways Using Deep Reinforcement Learning (DRL) Method

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A Survey on Lane Change Intention Prediction of Human Drivers

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Enhancing Highway Driving: High Automated Vehicle Decision Making in a Complex Multi-Body Simulation Environment

Rizehvandi, A., Azadi, S. & Eichberger, A., 15 Aug 2024, In: *Modelling*. 5, 3, p. 951-968 18 p.

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The Benefits of Spatial Computing for Development and Testing of Software-Defined Vehicles

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Validation of Adaptive Cruise Control based on Model Predictive Control for Autonomous Vehicles in Real-Time System

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Enhancing LiDAR Reliability Through Utilization of Premium Road Marking Materials

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The use of spatial computing for autonomous driving functions

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