

Markus Maurer

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,452
citations

1684188

5
h-index

1872680

6
g-index

38
all docs

38
docs citations

38
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Defining and Substantiating the Terms Scene, Situation, and Scenario for Automated Driving. , 2015, , .		280
2	Scenarios for Development, Test and Validation of Automated Vehicles. , 2018, , .		250
3	Ontology based Scene Creation for the Development of Automated Vehicles. , 2018, , .		178
4	Probabilistic online POMDP decision making for lane changes in fully automated driving. , 2013, , .		110
5	Multi-Target Tracking using a 3D-Lidar sensor for autonomous vehicles. , 2013, , .		71
6	Towards Tactical Lane Change Behavior Planning for Automated Vehicles. , 2015, , .		70
7	Assessment of Deep Convolutional Neural Networks for Road Surface Classification. , 2018, , .		60
8	From Functional to Logical Scenarios: Detailing a Keyword-Based Scenario Description for Execution in a Simulation Environment. , 2019, , .		57
9	Autonomous driving â€“ a top-down-approach. Automatisierungstechnik, 2015, 63, 155-167.	0.8	51
10	Stadtпилот: First fully autonomous test drives in urban traffic. , 2011, , .		41
11	Model predictive control based trajectory generation for autonomous vehicles â€” An architectural approach. , 2017, , .		35
12	Identification of potential hazardous events for an Unmanned Protective Vehicle. , 2016, , .		32
13	Situation Assessment in Tactical Lane Change Behavior Planning for Automated Vehicles. , 2015, , .		26
14	Self-awareness in autonomous automotive systems. , 2017, , .		24
15	Local Volumetric Hybrid-Map-Based Simultaneous Localization and Mapping With Moving Object Tracking. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2440-2455.	8.0	22
16	Toward a Consistent Taxonomy for Scenario-Based Development and Test Approaches for Automated Vehicles: A Proposal for a Structuring Framework, a Basic Vocabulary, and Its Application. IEEE Access, 2021, 9, 147828-147854.	4.2	16
17	Structuring Cooperative Behavior Planning Implementations for Automated Driving. , 2015, , .		15
18	Taxonomy to Unify Fault Tolerance Regimes for Automotive Systems: Defining Fail-Operational, Fail-Degraded, and Fail-Safe. IEEE Transactions on Intelligent Vehicles, 2022, 7, 251-262.	12.7	15

#	ARTICLE	IF	CITATIONS
19	Towards Automated Driving: Unmanned Protective Vehicle for Highway Hard Shoulder Road Works. , 2015, , .		13
20	Conditions for a safe state of automated road vehicles. IT - Information Technology, 2015, 57, 215-222.	0.9	12
21	Toward Perception-Driven Urban Environment Modeling for Automated Road Vehicles. , 2015, , .		12
22	A Deep-Learning Approach for the Detection of Overexposure in Automotive Camera Images. , 2018, , .		9
23	Sensor scan timing compensation in environment models for automated road vehicles. , 2016, , .		6
24	Representing the Unknown â€œ Impact of Uncertainty on the Interaction between Decision Making and Trajectory Generation. , 2018, , .		6
25	The TUBS Road User Dataset: A New LiDAR Dataset and its Application to CNN-based Road User Classification for Automated Vehicles. , 2018, , .		6
26	Specifying a middleware for distributed embedded vehicle control systems. , 2014, , .		5
27	The Carolo-Cup Student Competition: Involving Students with Automated Driving. , 2018, , .		5
28	A contour classifying Kalman filter based on evidence theory. , 2011, , .		4
29	An Approach for a Requirement Analysis for an Autonomous Family Vehicle. , 2019, , .		4
30	Toward Generating Sufficiently Valid Test Case Results: A Method for Systematically Assigning Test Cases to Test Bench Configurations in a Scenario-Based Test Approach for Automated Vehicles. IEEE Access, 2022, 10, 6260-6285.	4.2	4
31	Behaviour recognition of traffic participants by using manoeuvre primitives for automated vehicles in urban traffic. , 2016, , .		3
32	Investigating Functional Redundancies in the Context of Vehicle Automation â€œ A Trajectory Tracking Perspective. , 2018, , .		3
33	Corridor Selection Under Semantic Uncertainty for Autonomous Road Vehicles. , 2018, , .		2
34	Sensitivity Analysis for Vehicle Dynamics Models â€œ An Approach to Model Quality Assessment for Automated Vehicles. , 2020, , .		2
35	Towards Efficient Hazard Identification in the Concept Phase of Driverless Vehicle Development. , 2020, , .		2
36	Simultaneous localization and mapping based on the local volumetric hybrid map. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Comprehensively Treated Driving Maneuvers in a Trajectory Planner. ATZelextronik Worldwide, 2011, 6, 10-13.	0.1	0
38	Compensating for the Absence of a Required Accompanying Person: A Draft of a Functional System Architecture for an Automated Vehicle. , 2021, , .		0