

# Ding Zhao

## List of Publications by Year in descending order

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45  
papers

1,392  
citations

471371

17  
h-index

580701

25  
g-index

45  
all docs

45  
docs citations

45  
times ranked

960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding V2V Driving Scenarios Through Traffic Primitives. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 610-619.	4.7	7
2	Rare-event Simulation for Neural Network and Random Forest Predictors. ACM Transactions on Modeling and Computer Simulation, 2022, 32, 1-33.	0.6	9
3	Robust unsupervised learning of temporal dynamic vehicle-to-vehicle interactions. Transportation Research Part C: Emerging Technologies, 2022, 142, 103768.	3.9	2
4	How to Evaluate Proving Grounds for Self-Driving? A Quantitative Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5737-5748.	4.7	7
5	Highway Exiting Planner for Automated Vehicles Using Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 990-1000.	4.7	30
6	Multimodal Safety-Critical Scenarios Generation for Decision-Making Algorithms Evaluation. IEEE Robotics and Automation Letters, 2021, 6, 1551-1558.	3.3	25
7	Combining Reachability Analysis and Importance Sampling for Accelerated Evaluation of Highway Automated Vehicles at Pedestrian Crossing. ASME Letters in Dynamic Systems and Control, 2021, 1, .	0.4	5
8	SANe: Smart Annotation and Evaluation Tools for Point Cloud Data. IEEE Access, 2020, 8, 131848-131858.	2.6	8
9	Advanced Driver Assistance Strategies for a Single-Vehicle Overtaking a Platoon on the Two-Lane Two-Way Road. IEEE Access, 2020, 8, 77285-77297.	2.6	12
10	Clustering of Driving Encounter Scenarios Using Connected Vehicle Trajectories. IEEE Transactions on Intelligent Vehicles, 2020, 5, 485-496.	9.4	29
11	Learning to Collide: An Adaptive Safety-Critical Scenarios Generating Method. , 2020, , .		37
12	Where Should We Place LiDARs on the Autonomous Vehicle? - An Optimal Design Approach. , 2019, , .		13
13	A Multi-Vehicle Trajectories Generator to Simulate Vehicle-to-Vehicle Encountering Scenarios. , 2019, , .		16
14	Eco-Trajectory Planning with Consideration of Queue along Congested Corridor for Hybrid Electric Vehicles. Transportation Research Record, 2019, 2673, 277-286.	1.0	35
15	Evaluation Uncertainty in Data-Driven Self-Driving Testing. , 2019, , .		10
16	A General Framework of Learning Multi-Vehicle Interaction Patterns from Video. , 2019, , .		5
17	Modeling Multi-Vehicle Interaction Scenarios Using Gaussian Random Field. , 2019, , .		14
18	Improving Localization Accuracy in Connected Vehicle Networks Using Rao-Blackwellized Particle Filters: Theory, Simulations, and Experiments. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2255-2266.	4.7	22

#	ARTICLE	IF	CITATIONS
19	Driving Style Analysis Using Primitive Driving Patterns With Bayesian Nonparametric Approaches. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2986-2998.	4.7	92
20	Extracting Traffic Primitives Directly From Naturalistically Logged Data for Self-Driving Applications. IEEE Robotics and Automation Letters, 2018, 3, 1223-1229.	3.3	47
21	Learning and Inferring a Driver's Braking Action in Car-Following Scenarios. IEEE Transactions on Vehicular Technology, 2018, 67, 3887-3899.	3.9	71
22	The Impact of Road Configuration in V2V-Based Cooperative Localization: Mathematical Analysis and Real-World Evaluation. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3220-3229.	4.7	7
23	Accelerated Evaluation of Automated Vehicles in Car-Following Maneuvers. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 733-744.	4.7	124
24	Evaluation of the Energy Efficiency in a Mixed Traffic with Automated Vehicles and Human Controlled Vehicles. , 2018, , .		6
25	RARE-EVENT SIMULATION WITHOUT STRUCTURAL INFORMATION: A LEARNING-BASED APPROACH. , 2018, , .		4
26	DESIGNING IMPORTANCE SAMPLERS TO SIMULATE MACHINE LEARNING PREDICTORS VIA OPTIMIZATION. , 2018, , .		3
27	A Versatile Approach to Evaluating and Testing Automated Vehicles based on Kernel Methods. , 2018, , .		14
28	An Accelerated Approach to Safely and Efficiently Test Pre-Production Autonomous Vehicles on Public Streets. , 2018, , .		6
29	A Tempt to Unify Heterogeneous Driving Databases using Traffic Primitives. , 2018, , .		4
30	Cluster Naturalistic Driving Encounters Using Deep Unsupervised Learning. , 2018, , .		14
31	Accelerated Evaluation of Autonomous Vehicles in the Lane Change Scenario Based on Subset Simulation Technique. , 2018, , .		22
32	Energy Efficiency and Emission Testing for Connected and Automated Vehicles Using Real-World Driving Data. , 2018, , .		3
33	Intelligent and connected vehicles: Current status and future perspectives. Science China Technological Sciences, 2018, 61, 1446-1471.	2.0	114
34	A Learning-Based Approach for Lane Departure Warning Systems With a Personalized Driver Model. IEEE Transactions on Vehicular Technology, 2018, 67, 9145-9157.	3.9	88
35	Accelerated Evaluation of Automated Vehicles Using Piecewise Mixture Models. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2845-2855.	4.7	37
36	Empirical Study of DSRC Performance Based on Safety Pilot Model Deployment Data. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2619-2628.	4.7	45

#	ARTICLE	IF	CITATIONS
37	How Much Data is Enough? A Statistical Approach with Case Study on Longitudinal Driving Behavior. IEEE Transactions on Intelligent Vehicles, 2017, , 1-1.	9.4	52
38	Accelerated Evaluation of Automated Vehicles Safety in Lane-Change Scenarios Based on Importance Sampling Techniques. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 595-607.	4.7	237
39	TrafficNet: An open naturalistic driving scenario library. , 2017, , .		34
40	Sequential experimentation to efficiently test automated vehicles. , 2017, , .		7
41	Optimization of vehicle connections in V2V-based cooperative localization. , 2017, , .		2
42	Evaluation of Lane Departure Correction Systems Using a Regenerative Stochastic Driver Model. IEEE Transactions on Intelligent Vehicles, 2017, 2, 221-232.	9.4	36
43	Towards affordable on-track testing for autonomous vehicle " A Kriging-based statistical approach. , 2017, , .		11
44	Gap Acceptance During Lane Changes by Large-Truck Drivers" An Image-Based Analysis. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 772-781.	4.7	17
45	Accelerated Evaluation of Automated Vehicles in Lane Change Scenarios. , 2015, , .		9