

Shan Bao

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,460
citations

361045

20
h-index

344852

36
g-index

62
all docs

62
docs citations

62
times ranked

1164
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Can vehicle longitudinal jerk be used to identify aggressive drivers? An examination using naturalistic driving data. Accident Analysis and Prevention, 2017, 104, 125-136.	3.0	120
3	Age-related differences in visual scanning at median-divided highway intersections in rural areas. Accident Analysis and Prevention, 2009, 41, 146-152.	3.0	106
4	From Manual Driving to Automated Driving. , 2019, , .		63
5	Visual-Manual Distraction Detection Using Driving Performance Indicators With Naturalistic Driving Data. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2528-2535.	4.7	61
6	An optimal model-based trajectory following architecture synthesising the lateral adaptive preview strategy and longitudinal velocity planning for highly automated vehicle. Vehicle System Dynamics, 2017, 55, 1143-1188.	2.2	53
7	A method for connected vehicle trajectory prediction and collision warning algorithm based on V2V communication. International Journal of Crashworthiness, 2017, 22, 15-25.	1.1	49
8	Examination and prediction of drivers' reaction when provided with V2I communication-based intersection maneuver strategies. Transportation Research Part C: Emerging Technologies, 2019, 106, 17-28.	3.9	45
9	Drivers overtaking bicyclists" An examination using naturalistic driving data. Accident Analysis and Prevention, 2018, 115, 98-109.	3.0	43
10	Mobile phone use while cycling: A study based on the theory of planned behavior. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 64, 388-400.	1.8	42
11	Quantifying visual road environment to establish a speeding prediction model: An examination using naturalistic driving data. Accident Analysis and Prevention, 2019, 129, 289-298.	3.0	42
12	Testing Scenario Library Generation for Connected and Automated Vehicles, Part II: Case Studies. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5635-5647.	4.7	42
13	Examining drivers' eye glance patterns during distracted driving: Insights from scanning randomness and glance transition matrix. Journal of Safety Research, 2017, 63, 149-155.	1.7	40
14	Heavy-Truck Drivers' Following Behavior With Intervention of an Integrated, In-Vehicle Crash Warning System. Human Factors, 2012, 54, 687-697.	2.1	38
15	Driver Performance at Two-Way Stop-Controlled Intersections on Divided Highways. Transportation Research Record, 2008, 2069, 26-32.	1.0	34
16	Effects of an integrated collision warning system on teenage driver behavior. Journal of Safety Research, 2017, 61, 65-75.	1.7	31
17	Quantifying drivers' visual perception to analyze accident-prone locations on two-lane mountain highways. Accident Analysis and Prevention, 2018, 119, 122-130.	3.0	31
18	Longitudinal Driving Behavior with Integrated Crash-Warning System. Transportation Research Record, 2013, 2365, 17-21.	1.0	30

#	ARTICLE	IF	CITATIONS
19	An optimal hierarchical framework of the trajectory following by convex optimisation for highly automated driving vehicles. <i>Vehicle System Dynamics</i> , 2019, 57, 1287-1317.	2.2	29
20	An examination of teen drivers' car-following behavior under naturalistic driving conditions: With and without an advanced driving assistance system. <i>Accident Analysis and Prevention</i> , 2020, 147, 105762.	3.0	28
21	Measurement and prediction of driver trust in automated vehicle technologies: An application of hand position transition probability matrix. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 124, 102957.	3.9	27
22	Gap Acceptance During Lane Changes by Large-Truck Drivers—An Image-Based Analysis. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 772-781.	4.7	17
23	How do drivers behave during indecision zone maneuvers?. <i>Accident Analysis and Prevention</i> , 2016, 96, 274-279.	3.0	17
24	Modeling drivers' reaction when being tailgated: A Random Forests Method. <i>Journal of Safety Research</i> , 2021, 78, 28-35.	1.7	17
25	Using naturalistic driving data to examine drivers' seatbelt use behavior: Comparison between teens and adults. <i>Journal of Safety Research</i> , 2015, 54, 69.e29-73.	1.7	15
26	A spectral power analysis of driving behavior changes during the transition from nondistracted to distraction. <i>Traffic Injury Prevention</i> , 2017, 18, 826-831.	0.6	15
27	Examination of drivers' cell phone use behavior at intersections by using naturalistic driving data. <i>Journal of Safety Research</i> , 2015, 54, 89.e29-93.	1.7	14
28	Characteristics of turn signal use at intersections in baseline naturalistic driving. <i>Accident Analysis and Prevention</i> , 2015, 74, 1-7.	3.0	14
29	Beyond safety drivers: Applying air traffic control principles to support the deployment of driverless vehicles. <i>PLoS ONE</i> , 2020, 15, e0232837.	1.1	14
30	Effects of an integrated collision warning system on risk compensation behavior: An examination under naturalistic driving conditions. <i>Accident Analysis and Prevention</i> , 2021, 163, 106450.	3.0	13
31	Distracted Driving Performance Measures. <i>Transportation Research Record</i> , 2015, 2518, 68-72.	1.0	12
32	Factors Affecting Drivers' Cell Phone Use Behavior. <i>Transportation Research Record</i> , 2014, 2434, 72-79.	1.0	11
33	Using 3D Mobile Mapping to Evaluate Intersection Design Through Drivers' Visual Perception. <i>IEEE Access</i> , 2019, 7, 19222-19231.	2.6	11
34	Effectiveness of a Current Commercial Vehicle Forward Collision Avoidance and Mitigation Systems. , 2013, , .		9
35	Accelerated Evaluation of Automated Vehicles in Lane Change Scenarios. , 2015, , .		9
36	Integration of Active and Passive Safety Technologies - A Method to Study and Estimate Field Capability. , 0, , .		9

#	ARTICLE	IF	CITATIONS
37	Online distraction detection for naturalistic driving dataset using kinematic motion models and a multiple model algorithm. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 130, 103317.	3.9	8
38	Visual Search Strategies of Older Drivers at Rural Expressway Intersections. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2007, 51, 1560-1564.	0.2	6
39	Perceived safety benefits, concerns, and utility of advanced driver assistance systems among owners of ADAS-equipped vehicles. <i>Traffic Injury Prevention</i> , 2018, 19, S135-S137.	0.6	6
40	An Augmented Warning System for Pedestrians: User Interface Design and Algorithm Development. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7197.	1.3	6
41	Driver Safety Programs. <i>Transportation Research Record</i> , 2009, 2096, 76-80.	1.0	4
42	Performance of DSRC during Safety Pilot Model Deployment. <i>SAE International Journal of Passenger Cars - Electronic and Electrical Systems</i> , 2017, 10, 165-172.	0.3	4
43	A fallback mechanism or a commander? A discussion about the role and skill needs of future drivers within partially automated vehicles. <i>Transportation Research Interdisciplinary Perspectives</i> , 2021, 9, 100337.	1.6	3
44	Investigating External Interaction Modality and Design Between Automated Vehicles and Pedestrians at Crossings. , 2021, , .		3
45	Examination of Recent Pedestrian Safety Patterns at Intersections through Crash Data Analysis. <i>Transportation Research Record</i> , 2022, 2676, 331-341.	1.0	3
46	Eye Glance Behavior Associated with Cell-Phone Use. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014, 58, 2112-2116.	0.2	2
47	Varying Levels of Reality in Human Factors Testing: Parallel Experiments at Mcity and in a Driving Simulator. , 0, , .		2
48	Estimation of Lead Vehicle Kinematics Using Camera-Based Data for Driver Distraction Detection. <i>International Journal of Automotive Engineering</i> , 2018, 9, 158-164.	0.3	2
49	Validating the representativeness assumption of the quasi-induced exposure method using a national representative field observation survey. <i>Traffic Injury Prevention</i> , 2021, 22, 133-138.	0.6	2
50	Automated Control and Brake Strategies for Future Crash Avoidance Systems - Potential Benefits. , 0, , .		1
51	Spectral Power Analysis of Driversâ€™ Gas Pedal Control during Steady-state Car-following on Freeways. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 729-733.	0.2	1
52	The 2nd Workshop on Localization vs. Internationalization: Impact of COVID-19 Pandemic on AutomotiveUI Activities from the View of Diversity and Inclusion. , 2020, , .		1
53	Hazard Cuing Systems for Teen Drivers: A Test-Track Evaluation on Mcity. , 0, , .		1
54	The Effect of Turn Signal Onset on Lateral Performance Measures When Overtaking a Lead Vehicle - Using Naturalistic Driving Environment. , 0, , .		1

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55	Strategic Differences in Mental Rotation Tasks Based on Gaze Durations. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1227-1230.	0.2	0
56	2nd Workshop on Situation Awareness in Automotive Evaluation & Design. , 2018, , .		0
57	Auto-UI. Interactions, 2020, 27, 7-9.	0.8	0
58	Title is missing!. , 2020, 15, e0232837.		0
59	Title is missing!. , 2020, 15, e0232837.		0
60	Title is missing!. , 2020, 15, e0232837.		0
61	Title is missing!. , 2020, 15, e0232837.		0