

Guohui Zhang

List of Publications by Year in descending order

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84
papers

2,756
citations

172443

29
h-index

189881

50
g-index

84
all docs

84
docs citations

84
times ranked

2057
citing authors

#	ARTICLE	IF	CITATIONS
1	A multinomial logit model-Bayesian network hybrid approach for driver injury severity analyses in rear-end crashes. <i>Accident Analysis and Prevention</i> , 2015, 80, 76-88.	5.7	171
2	Mixed logit model-based driver injury severity investigations in single- and multi-vehicle crashes on rural two-lane highways. <i>Accident Analysis and Prevention</i> , 2014, 72, 105-115.	5.7	169
3	Investigating driver injury severity patterns in rollover crashes using support vector machine models. <i>Accident Analysis and Prevention</i> , 2016, 90, 128-139.	5.7	166
4	Video-Based Vehicle Detection and Classification System for Real-Time Traffic Data Collection Using Uncalibrated Video Cameras. <i>Transportation Research Record</i> , 2007, 1993, 138-147.	1.9	125
5	An explanatory analysis of driver injury severity in rear-end crashes using a decision table/Naïve Bayes (DTNB) hybrid classifier. <i>Accident Analysis and Prevention</i> , 2016, 90, 95-107.	5.7	98
6	Examining driver injury severity outcomes in rural non-interstate roadway crashes using a hierarchical ordered logit model. <i>Accident Analysis and Prevention</i> , 2016, 96, 79-87.	5.7	93
7	Analysis of driver injury severity in single-vehicle crashes on rural and urban roadways. <i>Accident Analysis and Prevention</i> , 2016, 94, 35-45.	5.7	92
8	Risk factors affecting fatal bus accident severity: Their impact on different types of bus drivers. <i>Accident Analysis and Prevention</i> , 2016, 86, 29-39.	5.7	90
9	Examining Headway Distribution Models with Urban Freeway Loop Event Data. <i>Transportation Research Record</i> , 2007, 1999, 141-149.	1.9	89
10	Investigation of driver injury severities in rural single-vehicle crashes under rain conditions using mixed logit and latent class models. <i>Accident Analysis and Prevention</i> , 2019, 124, 219-229.	5.7	71
11	Using latent class analysis and mixed logit model to explore risk factors on driver injury severity in single-vehicle crashes. <i>Accident Analysis and Prevention</i> , 2019, 129, 230-240.	5.7	69
12	Optimizing Minimum and Maximum Green Time Settings for Traffic Actuated Control at Isolated Intersections. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2011, 12, 164-173.	8.0	67
13	Examining driver injury severity in intersection-related crashes using cluster analysis and hierarchical Bayesian models. <i>Accident Analysis and Prevention</i> , 2018, 120, 139-151.	5.7	67
14	Temporal-spatial dimension extension-based intersection control formulation for connected and autonomous vehicle systems. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 104, 234-248.	7.6	64
15	Driver injury severity outcome analysis in rural interstate highway crashes: a two-level Bayesian logistic regression interpretation. <i>Accident Analysis and Prevention</i> , 2016, 97, 69-78.	5.7	61
16	Generalized nonlinear models for rear-end crash risk analysis. <i>Accident Analysis and Prevention</i> , 2014, 62, 9-16.	5.7	59
17	Hierarchical Bayesian random intercept model-based cross-level interaction decomposition for truck driver injury severity investigations. <i>Accident Analysis and Prevention</i> , 2015, 85, 186-198.	5.7	59
18	Impact of roadway geometric features on crash severity on rural two-lane highways. <i>Accident Analysis and Prevention</i> , 2018, 111, 34-42.	5.7	57

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19	Network-wide traffic signal control optimization using a multi-agent deep reinforcement learning. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 125, 103059.	7.6	53
20	Exploratory multinomial logit model-based driver injury severity analyses for teenage and adult drivers in intersection-related crashes. <i>Traffic Injury Prevention</i> , 2016, 17, 413-422.	1.4	50
21	Heterogeneous impacts of gender-interpreted contributing factors on driver injury severities in single-vehicle rollover crashes. <i>Accident Analysis and Prevention</i> , 2016, 94, 28-34.	5.7	47
22	A Kinect-Based Approach for 3D Pavement Surface Reconstruction and Cracking Recognition. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 3935-3946.	8.0	46
23	Exploring driver injury severity patterns and causes in low visibility related single-vehicle crashes using a finite mixture random parameters model. <i>Analytic Methods in Accident Research</i> , 2018, 20, 1-14.	8.2	42
24	Force-Driven Traffic Simulation for a Future Connected Autonomous Vehicle-Enabled Smart Transportation System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 2221-2233.	8.0	40
25	A Feedback-Based Dynamic Tolling Algorithm for High-Occupancy Toll Lane Operations. <i>Transportation Research Record</i> , 2008, 2065, 54-63.	1.9	39
26	A latent class approach for driver injury severity analysis in highway single vehicle crash considering unobserved heterogeneity and temporal influence. <i>Analytic Methods in Accident Research</i> , 2019, 24, 100110.	8.2	38
27	A hierarchical Bayesian spatiotemporal random parameters approach for alcohol/drug impaired-driving crash frequency analysis. <i>Analytic Methods in Accident Research</i> , 2019, 21, 44-61.	8.2	36
28	Optimizing Coordinated Ramp Metering: A Preemptive Hierarchical Control Approach. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2013, 28, 22-37.	9.8	33
29	Taxi-Based Mobility Demand Formulation and Prediction Using Conditional Generative Adversarial Network-Driven Learning Approaches. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 3888-3899.	8.0	31
30	Spatial-temporal traffic congestion identification and correlation extraction using floating car data. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2021, 25, 263-280.	4.2	30
31	An efficient General Transit Feed Specification (GTFS) enabled algorithm for dynamic transit accessibility analysis. <i>PLoS ONE</i> , 2017, 12, e0185333.	2.5	29
32	Gaussian Mixture Model-Based Speed Estimation and Vehicle Classification Using Single-Loop Measurements. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2012, 16, 184-196.	4.2	28
33	Bayesian network-based formulation and analysis for toll road utilization supported by traffic information provision. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 60, 339-359.	7.6	28
34	Identifying heterogeneous factors for driver injury severity variations in snow-related rural single-vehicle crashes. <i>Accident Analysis and Prevention</i> , 2020, 144, 105587.	5.7	28
35	Investigation into Shadow Removal from Traffic Images. <i>Transportation Research Record</i> , 2007, 2000, 70-77.	1.9	26
36	Modeling animal-vehicle collisions considering animal-vehicle interactions. <i>Accident Analysis and Prevention</i> , 2011, 43, 1991-1998.	5.7	26

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37	Self-Adaptive Tolling Strategy for Enhanced High-Occupancy Toll Lane Operations. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 306-317.	8.0	26
38	Simulation-Based Investigation on High-Occupancy Toll Lane Operations for Washington State Route 167. Journal of Transportation Engineering, 2009, 135, 677-686.	0.9	25
39	Exploring the impacts of travel-implied policy factors on COVID-19 spread within communities based on multi-source data interpretations. Health and Place, 2021, 69, 102538.	3.3	22
40	Extracting and Predicting Taxi Hotspots in Spatiotemporal Dimensions Using Conditional Generative Adversarial Neural Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3680-3692.	6.3	20
41	Coupling of Ca ²⁺ and voltage activation in BK channels through the \pm B helix/voltage sensor interface. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14512-14521.	7.1	19
42	Artificial Neural Network Method for Length-Based Vehicle Classification Using Single-Loop Outputs. Transportation Research Record, 2006, 1945, 100-108.	1.9	19
43	Bus rapid transit system deployment for high quality and cost-effective transit service: a comprehensive review and comparative analysis. IET Intelligent Transport Systems, 2015, 9, 175-183.	3.0	18
44	Fusion convolutional neural network-based interpretation of unobserved heterogeneous factors in driver injury severity outcomes in single-vehicle crashes. Analytic Methods in Accident Research, 2021, 30, 100157.	8.2	17
45	Effects of Alcohol and Fatigue on Driving Performance in Different Roadway Geometries. Transportation Research Record, 2016, 2584, 88-96.	1.9	16
46	Nonparametric Modeling of Vehicle-Type-Specific Headway Distribution in Freeway Work Zones. Journal of Transportation Engineering, 2015, 141, .	0.9	15
47	Classification of Fatigued and Drunk Driving Based on Decision Tree Methods: A Simulator Study. International Journal of Environmental Research and Public Health, 2019, 16, 1935.	2.6	15
48	Tsunami-induced traffic evacuation strategy optimization. Transportation Research, Part D: Transport and Environment, 2019, 77, 535-559.	6.8	14
49	A Bayesian vector autoregression-based data analytics approach to enable irregularly-spaced mixed-frequency traffic collision data imputation with missing values. Transportation Research Part C: Emerging Technologies, 2019, 108, 302-319.	7.6	13
50	Artificial Neural Network Method for Length-Based Vehicle Classification Using Single-Loop Outputs. Transportation Research Record, 2006, 1945, 100-108.	1.9	12
51	Quantifying the Attractiveness of High-Occupancy Toll Lanes with Traffic Sensor Data under Various Traffic Conditions. Transportation Research Record, 2011, 2229, 102-109.	1.9	12
52	Discovering temporal and spatial patterns and characteristics of pavement distress condition data on major corridors in New Mexico. Journal of Transport Geography, 2014, 38, 148-158.	5.0	12
53	Driver behavior formulation in intersection dilemma zones with phone use distraction via a logit-Bayesian network hybrid approach. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2018, 22, 311-324.	4.2	12
54	A generic approach for examining the effectiveness of traffic control devices in school zones. Accident Analysis and Prevention, 2015, 82, 134-142.	5.7	11

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55	Traffic Incident Duration Estimation Based on a Dual-Learning Bayesian Network Model. Transportation Research Record, 2018, 2672, 196-209.	1.9	11
56	Modeling travel mode choice behavior with bounded rationality using Markov Logic Networks. Transportation Letters, 2019, 11, 303-310.	3.1	10
57	Leveraging Deep Convolutional Neural Networks Pre-Trained on Autonomous Driving Data for Vehicle Detection From Roadside LiDAR Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22367-22377.	8.0	10
58	Enhanced traffic information dissemination to facilitate toll road utilization: a nested logit model of a stated preference survey in Texas. Transportation, 2014, 41, 231-249.	4.0	9
59	Estimating control delays at signalised intersections using low-resolution transit bus-based global positioning system data. IET Intelligent Transport Systems, 2016, 10, 73-78.	3.0	9
60	Segment-Based Approach for Assessing Hazard Risk of Coastal Highways in Hawaii. Transportation Research Record, 2019, 2673, 83-91.	1.9	9
61	Developing a decentralized signal control strategy considering link storage capacity. Transportation Research Part C: Emerging Technologies, 2021, 124, 102971.	7.6	9
62	Loop Detector Segmentation Error and Its Impacts on Traffic Speed Estimation. Transportation Research Record, 2009, 2099, 50-57.	1.9	8
63	Volume Data Correction for Single-Channel Advance Loop Detectors at Signalized Intersections. Transportation Research Record, 2010, 2160, 128-139.	1.9	7
64	Modeling Traffic Flow Dynamics on Managed Lane Facility. Transportation Research Record, 2012, 2278, 163-170.	1.9	7
65	Optimal planning of flood-resilient electric vehicle charging stations. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 489-507.	9.8	7
66	Analyzing the impact of false-accident cyber attacks on traffic flow stability in connected vehicle environment. , 2013, , .		6
67	A computer vision algorithm for locating and recognizing traffic signal control light status and countdown time. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2021, 25, 533-546.	4.2	5
68	Modeling and Examining the Teenage and Adult Freeway Crash Risks and Injury Severities in Washington State. Journal of Transportation Safety and Security, 2011, 3, 207-221.	1.6	4
69	Formulating alcohol-influenced driver's injury severities in intersection-related crashes. Transport, 2018, 33, 165-176.	1.2	4
70	Crash model based on integrated design consistency with low traffic volumes (due to health disaster) Tj ETQq0 0 0, BT /Overlock 10 Tf	2.2	4
71	Link-Journey Speed Estimation for Urban Arterial Performance Measurement Using Advance Loop Detector Data under Congested Conditions. Journal of Transportation Engineering, 2012, 138, 1321-1332.	0.9	3
72	Simulation-Based, Scenario-Driven Integrated Corridor Management Strategy Analysis. Transportation Research Record, 2013, 2396, 38-44.	1.9	3

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73	Change of Road Integrated Design Consistency due to Antiskid Transverse Rumble Strips on High-Speed Federal Road FT050. <i>Advances in Civil Engineering Materials</i> , 2018, 7, 460-472.	0.6	3
74	Impacts of High Occupancy Toll lane operations on High Occupancy Vehicle travelers. , 2010, , .		2
75	Measuring the Quality of Service for High Occupancy Toll Lanes Operations. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 16, 15-25.	0.5	2
76	Using Precise Time Offset to Improve Freeway Vehicle Delay Estimates. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2012, 16, 82-93.	4.2	2
77	Performance Level of Road Geometric Design Based on Motorcycle “ Cars Linear Speed Profile. <i>Sustainable Civil Infrastructures</i> , 2018, , 40-50.	0.2	2
78	Aromatic interactions with membrane modulate human BK channel activation. <i>ELife</i> , 2020, 9, .	6.0	2
79	Investigate the Effectiveness of Graphic Route Information Panels through a Survey Study. , 2011, , .		1
80	A social-network-enabled green transportation system. , 2013, , .		1
81	Understanding the Interaction between Cyclists’s Traffic Violations and Enforcement Strategies: An Evolutionary Game-Theoretic Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8457.	2.6	1
82	A Pitfall to Avoid When Issuing Transit Signal Priority Treatments under Coordinated Control Strategies. , 2010, , .		0
83	Numerical Examinations of Traffic Accident Characteristics Using Analytical Statistical Methods. , 2012, , .		0
84	Data-Driven Urban Mobility Modeling and Analysis. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-2.	1.7	0