

Guohui Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

2,756
citations

196777
29
h-index

214428
50
g-index

84
all docs

84
docs citations

84
times ranked

2373
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal planning of flood-resilient electric vehicle charging stations. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2023, 38, 489-507.	6.3	7
2	Leveraging Deep Convolutional Neural Networks Pre-Trained on Autonomous Driving Data for Vehicle Detection From Roadside LiDAR Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 22367-22377.	4.7	10
3	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.	2.6	30
4	Crash model based on integrated design consistency with low traffic volumes (due to health disaster) <i>Tj ETQq0 0 0,rgBT /Overlock 10 TF</i>	1.9	4
5	A computer vision algorithm for locating and recognizing traffic signal control light status and countdown time. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2021, 25, 533-546.	2.6	5
6	Developing a decentralized signal control strategy considering link storage capacity. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 124, 102971.	3.9	9
7	Network-wide traffic signal control optimization using a multi-agent deep reinforcement learning. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 125, 103059.	3.9	53
8	Exploring the impacts of travel-implied policy factors on COVID-19 spread within communities based on multi-source data interpretations. <i>Health and Place</i> , 2021, 69, 102538.	1.5	22
9	Fusion convolutional neural network-based interpretation of unobserved heterogeneous factors in driver injury severity outcomes in single-vehicle crashes. <i>Analytic Methods in Accident Research</i> , 2021, 30, 100157.	4.7	17
10	Understanding the Interaction between Cyclists' Traffic Violations and Enforcement Strategies: An Evolutionary Game-Theoretic Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8457.	1.2	1
11	Identifying heterogeneous factors for driver injury severity variations in snow-related rural single-vehicle crashes. <i>Accident Analysis and Prevention</i> , 2020, 144, 105587.	3.0	28
12	Coupling of Ca ²⁺ and voltage activation in BK channels through the $\hat{\pm}B$ helix/voltage sensor interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14512-14521.	3.3	19
13	Extracting and Predicting Taxi Hotspots in Spatiotemporal Dimensions Using Conditional Generative Adversarial Neural Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 3680-3692.	3.9	20
14	Aromatic interactions with membrane modulate human BK channel activation. <i>ELife</i> , 2020, 9, .	2.8	2
15	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.	4.7	31
16	Tsunami-induced traffic evacuation strategy optimization. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 77, 535-559.	3.2	14
17	A Bayesian vector autoregression-based data analytics approach to enable irregularly-spaced mixed-frequency traffic collision data imputation with missing values. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 108, 302-319.	3.9	13
18	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.	3.0	71

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19	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.	3.9	64
20	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.	3.0	69
21	Segment-Based Approach for Assessing Hazard Risk of Coastal Highways in Hawai'i. <i>Transportation Research Record</i> , 2019, 2673, 83-91.	1.0	9
22	Classification of Fatigued and Drunk Driving Based on Decision Tree Methods: A Simulator Study. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1935.	1.2	15
23	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.	4.7	36
24	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.	4.7	38
25	Modeling travel mode choice behavior with bounded rationality using Markov Logic Networks. <i>Transportation Letters</i> , 2019, 11, 303-310.	1.8	10
26	Impact of roadway geometric features on crash severity on rural two-lane highways. <i>Accident Analysis and Prevention</i> , 2018, 111, 34-42.	3.0	57
27	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.	4.7	40
28	Formulating alcohol-influenced driver's injury severities in intersection-related crashes. <i>Transport</i> , 2018, 33, 165-176.	0.6	4
29	Driver behavior formulation in intersection dilemma zones with phone use distraction via a logit-Bayesian network hybrid approach. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2018, 22, 311-324.	2.6	12
30	Traffic Incident Duration Estimation Based on a Dual-Learning Bayesian Network Model. <i>Transportation Research Record</i> , 2018, 2672, 196-209.	1.0	11
31	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.	4.7	42
32	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.	3.0	67
33	A Kinect-Based Approach for 3D Pavement Surface Reconstruction and Cracking Recognition. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 3935-3946.	4.7	46
34	Performance Level of Road Geometric Design Based on Motorcycle "Cars Linear Speed Profile. <i>Sustainable Civil Infrastructures</i> , 2018, , 40-50.	0.1	2
35	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.	0.2	3
36	Data-Driven Urban Mobility Modeling and Analysis. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-2.	0.9	0

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37	An efficient General Transit Feed Specification (GTFS) enabled algorithm for dynamic transit accessibility analysis. <i>PLoS ONE</i> , 2017, 12, e0185333.	1.1	29
38	Effects of Alcohol and Fatigue on Driving Performance in Different Roadway Geometries. <i>Transportation Research Record</i> , 2016, 2584, 88-96.	1.0	16
39	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.	0.6	50
40	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.	3.0	93
41	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.	3.0	61
42	Analysis of driver injury severity in single-vehicle crashes on rural and urban roadways. <i>Accident Analysis and Prevention</i> , 2016, 94, 35-45.	3.0	92
43	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.	3.0	47
44	Investigating driver injury severity patterns in rollover crashes using support vector machine models. <i>Accident Analysis and Prevention</i> , 2016, 90, 128-139.	3.0	166
45	Estimating control delays at signalised intersections using low-resolution transit bus-based global positioning system data. <i>IET Intelligent Transport Systems</i> , 2016, 10, 73-78.	1.7	9
46	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.	3.0	98
47	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.	3.0	90
48	A generic approach for examining the effectiveness of traffic control devices in school zones. <i>Accident Analysis and Prevention</i> , 2015, 82, 134-142.	3.0	11
49	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.	3.0	171
50	Bus rapid transit system deployment for high quality and cost-effective transit service: a comprehensive review and comparative analysis. <i>IET Intelligent Transport Systems</i> , 2015, 9, 175-183.	1.7	18
51	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.	3.0	59
52	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.	3.9	28
53	Nonparametric Modeling of Vehicle-Type-Specific Headway Distribution in Freeway Work Zones. <i>Journal of Transportation Engineering</i> , 2015, 141, .	0.9	15
54	Self-Adaptive Tolling Strategy for Enhanced High-Occupancy Toll Lane Operations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 306-317.	4.7	26

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55	Enhanced traffic information dissemination to facilitate toll road utilization: a nested logit model of a stated preference survey in Texas. <i>Transportation</i> , 2014, 41, 231-249.	2.1	9
56	Generalized nonlinear models for rear-end crash risk analysis. <i>Accident Analysis and Prevention</i> , 2014, 62, 9-16.	3.0	59
57	Discovering temporal and spatial patterns and characteristics of pavement distress condition data on major corridors in New Mexico. <i>Journal of Transport Geography</i> , 2014, 38, 148-158.	2.3	12
58	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.	3.0	169
59	Optimizing Coordinated Ramp Metering: A Preemptive Hierarchical Control Approach. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2013, 28, 22-37.	6.3	33
60	Analyzing the impact of false-accident cyber attacks on traffic flow stability in connected vehicle environment. , 2013, , .		6
61	A social-network-enabled green transportation system. , 2013, , .		1
62	Simulation-Based, Scenario-Driven Integrated Corridor Management Strategy Analysis. <i>Transportation Research Record</i> , 2013, 2396, 38-44.	1.0	3
63	Link-Journey Speed Estimation for Urban Arterial Performance Measurement Using Advance Loop Detector Data under Congested Conditions. <i>Journal of Transportation Engineering</i> , 2012, 138, 1321-1332.	0.9	3
64	Numerical Examinations of Traffic Accident Characteristics Using Analytical Statistical Methods. , 2012, , .		0
65	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.	2.6	2
66	Modeling Traffic Flow Dynamics on Managed Lane Facility. <i>Transportation Research Record</i> , 2012, 2278, 163-170.	1.0	7
67	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.	2.6	28
68	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.	4.7	67
69	Quantifying the Attractiveness of High-Occupancy Toll Lanes with Traffic Sensor Data under Various Traffic Conditions. <i>Transportation Research Record</i> , 2011, 2229, 102-109.	1.0	12
70	Investigate the Effectiveness of Graphic Route Information Panels through a Survey Study. , 2011, , .		1
71	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
72	Modeling animalâ€“vehicle collisions considering animalâ€“vehicle interactions. <i>Accident Analysis and Prevention</i> , 2011, 43, 1991-1998.	3.0	26

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73	Modeling and Examining the Teenage and Adult Freeway Crash Risks and Injury Severities in Washington State. <i>Journal of Transportation Safety and Security</i> , 2011, 3, 207-221.	1.1	4
74	A Pitfall to Avoid When Issuing Transit Signal Priority Treatments under Coordinated Control Strategies. , 2010, , .		0
75	Volume Data Correction for Single-Channel Advance Loop Detectors at Signalized Intersections. <i>Transportation Research Record</i> , 2010, 2160, 128-139.	1.0	7
76	Impacts of High Occupancy Toll lane operations on High Occupancy Vehicle travelers. , 2010, , .		2
77	Simulation-Based Investigation on High-Occupancy Toll Lane Operations for Washington State Route 167. <i>Journal of Transportation Engineering</i> , 2009, 135, 677-686.	0.9	25
78	Loop Detector Segmentation Error and Its Impacts on Traffic Speed Estimation. <i>Transportation Research Record</i> , 2009, 2099, 50-57.	1.0	8
79	A Feedback-Based Dynamic Tolling Algorithm for High-Occupancy Toll Lane Operations. <i>Transportation Research Record</i> , 2008, 2065, 54-63.	1.0	39
80	Examining Headway Distribution Models with Urban Freeway Loop Event Data. <i>Transportation Research Record</i> , 2007, 1999, 141-149.	1.0	89
81	Investigation into Shadow Removal from Traffic Images. <i>Transportation Research Record</i> , 2007, 2000, 70-77.	1.0	26
82	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.	1.0	125
83	Artificial Neural Network Method for Length-Based Vehicle Classification Using Single-Loop Outputs. <i>Transportation Research Record</i> , 2006, 1945, 100-108.	1.0	12
84	Artificial Neural Network Method for Length-Based Vehicle Classification Using Single-Loop Outputs. , 0, .		19