

Yajie Zou

List of Publications by Year in descending order

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67
papers

1,974
citations

185998
28
h-index

253896
43
g-index

67
all docs

67
docs citations

67
times ranked

1804
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the merging behavior patterns and evolutionary mechanism at freeway on-Ramps. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 573-586.	2.6	3
2	Incorporating survival analysis into the safety effectiveness evaluation of treatments: Jointly modeling crash counts and time intervals between crashes. Journal of Transportation Safety and Security, 2022, 14, 338-358.	1.1	2
3	Long-term prediction for high-resolution lane-changing data using temporal convolution network. Transportmetrica B, 2022, 10, 849-863.	1.4	9
4	Integrated Travel Demand and Accessibility Model to Examine the Impact of New Infrastructures Using Travel Behavior Responses. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	0.8	3
5	Finite Mixture of the Hidden Markov Model for Driving Style Analysis. Journal of Advanced Transportation, 2022, 2022, 1-8.	0.9	1
6	An Optimized Algorithm for Dangerous Driving Behavior Identification Based on Unbalanced Data. Electronics (Switzerland), 2022, 11, 1557.	1.8	5
7	Vehicle Acceleration Prediction Based on Machine Learning Models and Driving Behavior Analysis. Applied Sciences (Switzerland), 2022, 12, 5259.	1.3	28
8	A temporal fusion transformer for short-term freeway traffic speed multistep prediction. Neurocomputing, 2022, 500, 329-340.	3.5	35
9	Missing data imputation for traffic flow based on combination of fuzzy neural network and rough set theory. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2021, 25, 439-454.	2.6	41
10	Comparison of confidence and prediction intervals for different mixed-Poisson regression models. Journal of Transportation Safety and Security, 2021, 13, 357-379.	1.1	5
11	Exploring the Impact of Climate and Extreme Weather on Fatal Traffic Accidents. Sustainability, 2021, 13, 390.	1.6	29
12	Application of the Bayesian Model Averaging in Analyzing Freeway Traffic Incident Clearance Time for Emergency Management. Journal of Advanced Transportation, 2021, 2021, 1-9.	0.9	31
13	Multi-Depot Pickup and Delivery Problem with Resource Sharing. Journal of Advanced Transportation, 2021, 2021, 1-22.	0.9	1
14	Modified Stackelberg Games Approach for Dynamic Signal Control and Route Choice Equilibrium on Mixed Networks. Transportation Research Record, 2020, 2674, 51-65.	1.0	1
15	Impact of Fog Conditions on Lane-Level Speeds on Freeways. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	4
16	Exploring the Application of the Linear Poisson Autoregressive Model for Analyzing the Dynamic Impact of Traffic Laws on Fatal Traffic Accident Frequency. Journal of Advanced Transportation, 2020, 2020, 1-9.	0.9	6
17	Examining the Impact of Different Periodic Functions on Short-Term Freeway Travel Time Prediction Approaches. Journal of Advanced Transportation, 2020, 2020, 1-15.	0.9	10
18	Examining the Impact of Adverse Weather on Travel Time Reliability of Urban Corridors in Shanghai. Journal of Advanced Transportation, 2020, 2020, 1-11.	0.9	6

#	ARTICLE	IF	CITATIONS
19	Statistical and machine-learning methods for clearance time prediction of road incidents: A methodology review. <i>Analytic Methods in Accident Research</i> , 2020, 27, 100123.	4.7	69
20	Evaluation of Short-Term Freeway Speed Prediction Based on Periodic Analysis Using Statistical Models and Machine Learning Models. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-16.	0.9	48
21	Finite mixture survival model for examining the variability of urban arterial travel time for buses, passenger cars and taxis. <i>IET Intelligent Transport Systems</i> , 2020, 14, 1524-1533.	1.7	4
22	Comparative Analysis of the Reported Animal-Vehicle Collisions Data and Carcass Removal Data for Hotspot Identification. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-13.	0.9	7
23	Comparative Analysis of Empirical Bayes and Bayesian Hierarchical Models in Hotspot Identification. <i>Transportation Research Record</i> , 2019, 2673, 111-121.	1.0	17
24	A Copula-Based Approach for Accommodating the Underreporting Effect in Wildlife-Vehicle Crash Analysis. <i>Sustainability</i> , 2019, 11, 418.	1.6	36
25	A Multivariate Modeling Analysis of Commuters' Non-Work Activity Allocations in Xiaoshan District of Hangzhou, China. <i>Sustainability</i> , 2019, 11, 5768.	1.6	0
26	Jointly analyzing freeway traffic incident clearance and response time using a copula-based approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 86, 171-182.	3.9	35
27	A hybrid method for short-term freeway travel time prediction based on wavelet neural network and Markov chain. <i>Canadian Journal of Civil Engineering</i> , 2018, 45, 77-86.	0.7	19
28	Lane-changes prediction based on adaptive fuzzy neural network. <i>Expert Systems With Applications</i> , 2018, 91, 452-463.	4.4	158
29	Empirical Bayes estimates of finite mixture of negative binomial regression models and its application to highway safety. <i>Journal of Applied Statistics</i> , 2018, 45, 1652-1669.	0.6	55
30	Analysis of the Impact of Fog-Related Reduced Visibility on Traffic Parameters. <i>Journal of Transportation Engineering Part A: Systems</i> , 2018, 144, .	0.8	17
31	Taxi trips distribution modeling based on Entropy-Maximizing theory: A case study in Harbin city, China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 493, 430-443.	1.2	76
32	Examining the effect of adverse weather on road transportation using weather and traffic sensors. <i>PLoS ONE</i> , 2018, 13, e0205409.	1.1	21
33	Analysing the Impact of Traffic Incidents on the Travel Time Reliability of Freeway High-Occupancy Vehicle Lanes. <i>Discrete Dynamics in Nature and Society</i> , 2018, 2018, 1-12.	0.5	0
34	A semi-nonparametric Poisson regression model for analyzing motor vehicle crash data. <i>PLoS ONE</i> , 2018, 13, e0197338.	1.1	48
35	Level-Change Stackelberg Games Model for the Combined Traffic Assignment-Signal Control Equilibrium on Networks. <i>Transportation Research Record</i> , 2018, 2672, 24-35.	1.0	1
36	An Improved Fuzzy Neural Network for Traffic Speed Prediction Considering Periodic Characteristic. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 2340-2350.	4.7	283

#	ARTICLE	IF	CITATIONS
37	Quantile analysis of factors influencing the time taken to clear road traffic incidents. Proceedings of the Institution of Civil Engineers: Transport, 2017, 170, 296-304.	0.3	16
38	Mixture modeling of freeway speed and headway data using multivariate skew- t distributions. Transportmetrica A: Transport Science, 2017, 13, 657-678.	1.3	20
39	Quantification of variability of valid travel times with FMMs for buses, passenger cars, and taxis. IET Intelligent Transport Systems, 2017, 11, 1-9.	1.7	6
40	Developing a Clustering-Based Empirical Bayes Analysis Method for Hotspot Identification. Journal of Advanced Transportation, 2017, 2017, 1-9.	0.9	3
41	Google Earth elevation data extraction and accuracy assessment for transportation applications. PLoS ONE, 2017, 12, e0175756.	1.1	47
42	On the development of a semi-nonparametric generalized multinomial logit model for travel-related choices. PLoS ONE, 2017, 12, e0186689.	1.1	14
43	An adaptive map-matching algorithm based on hierarchical fuzzy system from vehicular GPS data. PLoS ONE, 2017, 12, e0188796.	1.1	15
44	Short-Term Speed Prediction Using Remote Microwave Sensor Data: Machine Learning versus Statistical Model. Mathematical Problems in Engineering, 2016, 2016, 1-13.	0.6	31
45	Travel Time Estimation Using Freeway Point Detector Data Based on Evolving Fuzzy Neural Inference System. PLoS ONE, 2016, 11, e0147263.	1.1	38
46	Application of finite mixture models for analysing freeway incident clearance time. Transportmetrica A: Transport Science, 2016, 12, 99-115.	1.3	40
47	Hybrid short-term prediction of traffic volume at ferry terminal based on data fusion. IET Intelligent Transport Systems, 2016, 10, 524-534.	1.7	20
48	Short-term prediction of vehicle waiting queue at ferry terminal based on machine learning method. Journal of Marine Science and Technology, 2016, 21, 729-741.	1.3	14
49	A copula-based approach to accommodate the dependence among microscopic traffic variables. Transportation Research Part C: Emerging Technologies, 2016, 70, 53-68.	3.9	29
50	The Poisson inverse Gaussian (PIG) generalized linear regression model for analyzing motor vehicle crash data. Journal of Transportation Safety and Security, 2016, 8, 18-35.	1.1	44
51	Validation of Crash Modification Factors Derived from Cross-Sectional Studies with Regression Models. Transportation Research Record, 2015, 2514, 88-96.	1.0	27
52	Impact of Traffic Incidents on Reliability of Freeway Travel Times. Transportation Research Record, 2015, 2484, 90-98.	1.0	13
53	Hybrid short-term freeway speed prediction methods based on periodic analysis. Canadian Journal of Civil Engineering, 2015, 42, 570-582.	0.7	41
54	Application of the Empirical Bayes Method with the Finite Mixture Model for Identifying Accident-Prone Spots. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	6

#	ARTICLE	IF	CITATIONS
55	Flexible and Robust Method for Missing Loop Detector Data Imputation. Transportation Research Record, 2015, 2527, 29-36.	1.0	40
56	Modeling over-dispersed crash data with a long tail: Examining the accuracy of the dispersion parameter in Negative Binomial models. Analytic Methods in Accident Research, 2015, 5-6, 1-16.	4.7	33
57	Model for Optimization of Ecodriving at Signalized Intersections. Transportation Research Record, 2014, 2427, 54-62.	1.0	20
58	Constructing a bivariate distribution for freeway speed and headway data. Transportmetrica A: Transport Science, 2014, 10, 255-272.	1.3	21
59	Applying the Generalized Waring model for investigating sources of variance in motor vehicle crash analysis. Accident Analysis and Prevention, 2014, 73, 20-26.	3.0	15
60	A space-time diurnal method for short-term freeway travel time prediction. Transportation Research Part C: Emerging Technologies, 2014, 43, 33-49.	3.9	71
61	Analyzing different functional forms of the varying weight parameter for finite mixture of negative binomial regression models. Analytic Methods in Accident Research, 2014, 1, 39-52.	4.7	38
62	Comparison of Sichel and Negative Binomial Models in Hot Spot Identification. Transportation Research Record, 2014, 2460, 107-116.	1.0	25
63	Traffic Flow Conditions Associated with Truck-Involved Crashes on the Freeway. , 2014, , .		0
64	Application of finite mixture of negative binomial regression models with varying weight parameters for vehicle crash data analysis. Accident Analysis and Prevention, 2013, 50, 1042-1051.	3.0	69
65	Comparison of Sichel and Negative Binomial Models in Estimating Empirical Bayes Estimates. Transportation Research Record, 2013, 2392, 11-21.	1.0	36
66	Use of Skew-Normal and Skew-t Distributions for Mixture Modeling of Freeway Speed Data. Transportation Research Record, 2011, 2260, 67-75.	1.0	29
67	Assessing the Agreement among Pavement Condition Indexes. Journal of Transportation Engineering, 2010, 136, 765-772.	0.9	39