

# Yunlong Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

3,330  
citations

147726

31  
h-index

161767

54  
g-index

97  
all docs

97  
docs citations

97  
times ranked

2544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of injury severity in rear-end crashes on an expressway involving different types of vehicles using random-parameters logit models with heterogeneity in means and variances. <i>Transportation Letters</i> , 2023, 15, 742-753.	1.8	11
2	Efficient Missing Counts Imputation of a Bike-Sharing System by Generative Adversarial Network. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 13443-13451.	4.7	5
3	A multinomial logit model: Safety risk analysis of interchange area based on aggregate driving behavior data. <i>Journal of Safety Research</i> , 2022, 80, 27-38.	1.7	6
4	Using an Interpretable Machine Learning Framework to Understand the Relationship of Mobility and Reliability Indices on Truck Drivers' Route Choices. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 13419-13428.	4.7	1
5	Research on drivers' hazard perception in plateau environment based on visual characteristics. <i>Accident Analysis and Prevention</i> , 2022, 166, 106540.	3.0	14
6	Semi-Automatic Extraction of Geometric Elements of Curved Ramps from Google Earth Images. <i>Sustainability</i> , 2022, 14, 1001.	1.6	2
7	Bridge Deck Deterioration: Reasons and Patterns. <i>Transportation Research Record</i> , 2022, 2676, 570-584.	1.0	8
8	Applying an interpretable machine learning framework to the traffic safety order analysis of expressway exits based on aggregate driving behavior data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 597, 127277.	1.2	11
9	Maturity in Automated Driving on Public Roads: A Review of the Six-Year Autonomous Vehicle Tester Program. <i>Transportation Research Record</i> , 2022, 2676, 352-362.	1.0	7
10	In-Depth Understanding of Near-Crash Events Through Pattern Recognition. <i>Transportation Research Record</i> , 2022, 2676, 775-785.	1.0	3
11	Short Duration Crash Prediction for Rural Two-Lane Roadways: Applying Explainable Artificial Intelligence. <i>Transportation Research Record</i> , 2022, 2676, 535-549.	1.0	10
12	Route-Based Transit Signal Priority Using Connected Vehicle Technology to Promote Bus Schedule Adherence. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 1174-1184.	4.7	23
13	Assessing environmental impacts of ad-hoc truck platooning on multilane freeways. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2021, 25, 281-292.	2.6	18
14	Clustering driver behavior using dynamic time warping and hidden Markov model. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2021, 25, 249-262.	2.6	37
15	Characterizing phone usage while driving: Safety impact from road and operational perspectives using factor analysis. <i>Accident Analysis and Prevention</i> , 2021, 152, 106012.	3.0	16
16	Modeling Capacity of Through Movement at Signalized Intersection Affected by Short Left-Turn Bay under Different Signal Settings. <i>Transportation Research Record</i> , 2021, 2675, 1209-1223.	1.0	3
17	Mining patterns of near-crash events with and without secondary tasks. <i>Accident Analysis and Prevention</i> , 2021, 157, 106162.	3.0	15
18	Hierarchical Longitudinal Control for Connected and Automated Vehicles in Mixed Traffic on a Signalized Arterial. <i>Sustainability</i> , 2021, 13, 8852.	1.6	2

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19	Patterns of near-crash events in a naturalistic driving dataset: Applying rules mining. Accident Analysis and Prevention, 2021, 161, 106346.	3.0	10
20	Inclusion of phone use while driving data in predicting distraction-affected crashes. Journal of Safety Research, 2021, 79, 321-328.	1.7	5
21	Understanding speeding behavior from naturalistic driving data: Applying classification based association rule mining. Accident Analysis and Prevention, 2020, 144, 105620.	3.0	39
22	Modeling of individual vehicle safety and fuel consumption under comprehensive external conditions. Transportation Research, Part D: Transport and Environment, 2020, 79, 102224.	3.2	24
23	Vehicle Fuel Consumption Prediction Method Based on Driving Behavior Data Collected from Smartphones. Journal of Advanced Transportation, 2020, 2020, 1-11.	0.9	44
24	Platoon recognition using connected vehicle technology. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 12-27.	2.6	12
25	Bid-Based Priority Signal Control in a Connected Environment: Concept. Transportation Research Record, 2019, 2673, 737-747.	1.0	3
26	Left-Turn Spillback Probability Estimation in a Connected Vehicle Environment. Transportation Research Record, 2019, 2673, 753-761.	1.0	2
27	Development of Urban Road Order Index Based on Driving Behavior and Speed Variation. Transportation Research Record, 2019, 2673, 466-478.	1.0	13
28	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.	1.2	15
29	Crash Involvement and Risky Riding Behaviors among Delivery Riders in China: The Role of Working Conditions. Transportation Research Record, 2019, 2673, 1011-1022.	1.0	44
30	A state dependent mandatory lane-changing model for urban arterials with hidden markov model method. International Journal of Transportation Science and Technology, 2019, 8, 219-230.	2.0	10
31	Assessing the Influence of Adverse Weather on Traffic Flow Characteristics Using a Driving Simulator and VISSIM. Sustainability, 2019, 11, 830.	1.6	39
32	Effects of on-Board Unit on Driving Behavior in Connected Vehicle Traffic Flow. Journal of Advanced Transportation, 2019, 2019, 1-12.	0.9	30
33	Forecasting of Short-Term Metro Ridership with Support Vector Machine Online Model. Journal of Advanced Transportation, 2018, 2018, 1-13.	0.9	33
34	Evaluating the Impact of Real-Time Mobility and Travel Time Reliability Information on Truck Drivers' Routing Decisions. Transportation Research Record, 2018, 2672, 164-172.	1.0	4
35	Classification of Distracted Driving Based on Visual Features and Behavior Data using a Random Forest Method. Transportation Research Record, 2018, 2672, 210-221.	1.0	13
36	Prediction of Chinese drivers' intentions to park illegally in emergency lanes: An application of the theory of planned behavior. Traffic Injury Prevention, 2018, 19, 629-636.	0.6	5

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37	Short-term forecasting of urban rail transit ridership based on ARIMA and wavelet decomposition. AIP Conference Proceedings, 2018, , .	0.3	10
38	Bus Capacity Estimation using Stochastic Queuing Models for Isolated Bus Stops in China. Transportation Research Record, 2018, 2672, 108-120.	1.0	11
39	Mixture modeling of freeway speed and headway data using multivariate skew- $t$ distributions. Transportmetrica A: Transport Science, 2017, 13, 657-678.	1.3	20
40	Throughput-Optimal Scheduling for Multi-Hop Networked Transportation Systems With Switch-Over Delay. , 2017, , .		5
41	How eco-driving training course influences driver behavior and comprehensibility: a driving simulator study. Cognition, Technology and Work, 2017, 19, 731-742.	1.7	16
42	Development and Application of an Ecodriving Support Platform Based on Internet+: Case Study in Beijing Taxicabs. Transportation Research Record, 2017, 2645, 57-66.	1.0	10
43	An Integrated Dilemma Zone Protection System Using Connected Vehicle Technology. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1714-1723.	4.7	13
44	A Comparative Study of Three Multivariate Short-Term Freeway Traffic Flow Forecasting Methods With Missing Data. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 205-218.	2.6	34
45	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
46	Person-Based Adaptive Priority Signal Control with Connected-Vehicle Information. Transportation Research Record, 2015, 2487, 78-87.	1.0	24
47	Queue Length Estimation Using Connected Vehicle Technology for Adaptive Signal Control. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2129-2140.	4.7	109
48	Pedestrian choices of vertical walking facilities inside urban rail transit stations. KSCE Journal of Civil Engineering, 2015, 19, 742-748.	0.9	12
49	Development of a driving simulator based eco-driving support system. Transportation Research Part C: Emerging Technologies, 2015, 58, 631-641.	3.9	58
50	Model for Optimization of Ecodriving at Signalized Intersections. Transportation Research Record, 2014, 2427, 54-62.	1.0	20
51	Constructing a bivariate distribution for freeway speed and headway data. Transportmetrica A: Transport Science, 2014, 10, 255-272.	1.3	21
52	A Real-Time Transit Signal Priority Control Model Considering Stochastic Bus Arrival Time. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1657-1666.	4.7	55
53	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
54	A hybrid short-term traffic flow forecasting method based on spectral analysis and statistical volatility model. Transportation Research Part C: Emerging Technologies, 2014, 43, 65-78.	3.9	201

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55	Analyzing different functional forms of the varying weight parameter for finite mixture of negative binomial regression models. <i>Analytic Methods in Accident Research</i> , 2014, 1, 39-52.	4.7	38
56	Freeway Travel Time Prediction Using Takagi-Sugeno-Kang Fuzzy Neural Network. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2013, 28, 594-603.	6.3	44
57	Goodness-of-fit testing for accident models with low means. <i>Accident Analysis and Prevention</i> , 2013, 61, 78-86.	3.0	10
58	Vehicle-to-vehicle connectivity on two parallel roadways with a general headway distribution. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 29, 84-96.	3.9	24
59	Simulating near-road reactive dispersion of gaseous air pollutants using a three-dimensional Eulerian model. <i>Science of the Total Environment</i> , 2013, 454-455, 348-357.	3.9	16
60	Application of finite mixture of negative binomial regression models with varying weight parameters for vehicle crash data analysis. <i>Accident Analysis and Prevention</i> , 2013, 50, 1042-1051.	3.0	69
61	Development of Recurrent Neural Network Considering Temporal-Spatial Input Dynamics for Freeway Travel Time Modeling. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2013, 28, 359-371.	6.3	80
62	Investigating Emission Reduction Benefit From Intersection Signal Optimization. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2013, 17, 200-209.	2.6	31
63	Comparison of Sichel and Negative Binomial Models in Estimating Empirical Bayes Estimates. <i>Transportation Research Record</i> , 2013, 2392, 11-21.	1.0	36
64	An Exact Markov Process for Multihop Connectivity via Intervehicle Communication on Parallel Roads. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 865-868.	6.1	19
65	Effect of Bicycles on the Saturation Flow Rate of Turning Vehicles at Signalized Intersections. <i>Journal of Transportation Engineering</i> , 2012, 138, 21-30.	0.9	17
66	Crash frequency analysis of different types of urban roadway segments using generalized additive model. <i>Journal of Safety Research</i> , 2012, 43, 107-114.	1.7	50
67	A multi-agent adaptive traffic signal control system using swarm intelligence and neuro-fuzzy reinforcement learning. , 2011, , .		7
68	Seasonal Autoregressive Integrated Moving Average and Support Vector Machine Models. <i>Transportation Research Record</i> , 2011, 2215, 85-92.	1.0	76
69	Use of Skew-Normal and Skew-t Distributions for Mixture Modeling of Freeway Speed Data. <i>Transportation Research Record</i> , 2011, 2260, 67-75.	1.0	29
70	Modeling Delay during Heavy Traffic for Signalized Intersections with Short Left-Turn Bays. <i>Transportation Research Record</i> , 2011, 2257, 103-110.	1.0	21
71	Development of Accident Modification Factors for Rural Frontage Road Segments in Texas Using Generalized Additive Models. <i>Journal of Transportation Engineering</i> , 2011, 137, 74-83.	0.9	36
72	Analytical Models for Protected plus Permitted Left-Turn Capacity at Signalized Intersection with Heavy Traffic. <i>Transportation Research Record</i> , 2010, 2192, 177-184.	1.0	11

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73	TAMNROM-3D. Transportation Research Record, 2010, 2158, 61-68.	1.0	4
74	Speed Estimation from Single Loop Data Using an Unscented Particle Filter. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 494-503.	6.3	10
75	Bayesian mixture modeling approach to account for heterogeneity in speed data. Transportation Research Part B: Methodological, 2010, 44, 662-673.	2.8	74
76	Bit-Error Aware Lossless Compression of Waveform Data. IEEE Signal Processing Letters, 2010, 17, 547-550.	2.1	4
77	Vehicle Type-Specific Headway Analysis Using Freeway Traffic Data. Transportation Research Record, 2009, 2124, 222-230.	1.0	74
78	Predicting motor vehicle crashes using Support Vector Machine models. Accident Analysis and Prevention, 2008, 40, 1611-1618.	3.0	245
79	Short-Term Traffic Flow Forecasting Using Fuzzy Logic System Methods. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2008, 12, 102-112.	2.6	111
80	Modeling Left-Turn Blockage and Capacity at Signalized Intersection with Short Left-Turn Bay. Transportation Research Record, 2008, 2071, 71-76.	1.0	40
81	Response to "Discussion Note on Paper "A Wavelet Network Model for Short-Term Traffic Volume Forecasting". Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2008, 12, 99-101.	2.6	0
82	Crash Frequency Analysis with Generalized Additive Models. Transportation Research Record, 2008, 2061, 39-45.	1.0	51
83	Travel Mode Choice Modeling with Support Vector Machines. Transportation Research Record, 2008, 2076, 141-150.	1.0	83
84	Forecasting of Short-Term Freeway Volume with v-Support Vector Machines. Transportation Research Record, 2007, 2024, 92-99.	1.0	133
85	Estimating Dispersion Parameter of Negative Binomial Distribution for Analysis of Crash Data. Transportation Research Record, 2007, 2019, 15-21.	1.0	22
86	Short-Term Traffic Volume Forecasting Using Kalman Filter with Discrete Wavelet Decomposition. Computer-Aided Civil and Infrastructure Engineering, 2007, 22, 326-334.	6.3	233
87	Predicting motor vehicle collisions using Bayesian neural network models: An empirical analysis. Accident Analysis and Prevention, 2007, 39, 922-933.	3.0	191
88	A Wavelet Network Model for Short-Term Traffic Volume Forecasting. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2006, 10, 141-150.	2.6	76
89	Application of Genetic Neural Networks to Real-Time Intersection Accident Detection Using Acoustic Signals. Transportation Research Record, 2006, 1968, 75-82.	1.0	1
90	A derivative-free nonlinear algorithm for speed estimation using data from single loop detectors. , 2006, , .		2

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91	Systematic Validation of a Microscopic Traffic Simulation Program. Transportation Research Record, 2004, 1876, 112-120.	1.0	11
92	Development of an Automated Accident Detection System at Intersections. , 2004, , 153.		4
93	Automated Accident Detection in Intersections via Digital Audio Signal Processing. Transportation Research Record, 2003, 1840, 186-192.	1.0	11
94	Review of Transportation engineering basics by A. S. Narasimha Murthy and Henry R. Mohle. Journal of Transportation Engineering, 2002, 128, 479-479.	0.9	0
95	Multiregime Approach for Microscopic Traffic Simulation. Transportation Research Record, 1998, 1644, 103-114.	1.0	58
96	Application of Genetic Neural Networks to Real-Time Intersection Accident Detection Using Acoustic Signals. , 0, .		4
97	Unscented Kalman Filter Method for Speed Estimation Using Single Loop Detector Data. , 0, .		18