Yunlong Zhang

List of Publications by Year in descending order

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147726 161767 3,330 97 31 54 h-index citations g-index papers 97 97 97 2544 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Predicting motor vehicle crashes using Support Vector Machine models. Accident Analysis and Prevention, 2008, 40, 1611-1618. | 3.0 | 245 |
| 2 | 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 |
| 3 | 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 |
| 4 | Predicting motor vehicle collisions using Bayesian neural network models: An empirical analysis. Accident Analysis and Prevention, 2007, 39, 922-933. | 3.0 | 191 |
| 5 | Forecasting of Short-Term Freeway Volume with v-Support Vector Machines. Transportation Research Record, 2007, 2024, 92-99. | 1.0 | 133 |
| 6 | 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 |
| 7 | Queue Length Estimation Using Connected Vehicle Technology for Adaptive Signal Control. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2129-2140. | 4.7 | 109 |
| 8 | Travel Mode Choice Modeling with Support Vector Machines. Transportation Research Record, 2008, 2076, 141-150. | 1.0 | 83 |
| 9 | Development of Recurrent Neural Network Considering Temporalâ€Spatial Input Dynamics for Freeway Travel Time Modeling. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 359-371. | 6.3 | 80 |
| 10 | 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 |
| 11 | Seasonal Autoregressive Integrated Moving Average and Support Vector Machine Models. Transportation Research Record, 2011, 2215, 85-92. | 1.0 | 76 |
| 12 | Vehicle Type–Specific Headway Analysis Using Freeway Traffic Data. Transportation Research Record, 2009, 2124, 222-230. | 1.0 | 74 |
| 13 | Bayesian mixture modeling approach to account for heterogeneity in speed data. Transportation Research Part B: Methodological, 2010, 44, 662-673. | 2.8 | 74 |
| 14 | 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 |
| 15 | 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 |
| 16 | Multiregime Approach for Microscopic Traffic Simulation. Transportation Research Record, 1998, 1644, 103-114. | 1.0 | 58 |
| 17 | Development of a driving simulator based eco-driving support system. Transportation Research Part C: Emerging Technologies, 2015, 58, 631-641. | 3.9 | 58 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | Crash Frequency Analysis with Generalized Additive Models. Transportation Research Record, 2008, 2061, 39-45. | 1.0 | 51 |
| 20 | Crash frequency analysis of different types of urban roadway segments using generalized additive model. Journal of Safety Research, 2012, 43, 107-114. | 1.7 | 50 |
| 21 | Freeway Travel Time Prediction Using Takagi–Sugeno–Kang Fuzzy Neural Network. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 594-603. | 6.3 | 44 |
| 22 | 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 |
| 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 | Modeling Left-Turn Blockage and Capacity at Signalized Intersection with Short Left-Turn Bay. Transportation Research Record, 2008, 2071, 71-76. | 1.0 | 40 |
| 25 | Assessing the Influence of Adverse Weather on Traffic Flow Characteristics Using a Driving Simulator and VISSIM. Sustainability, 2019, 11, 830. | 1.6 | 39 |
| 26 | Understanding speeding behavior from naturalistic driving data: Applying classification based association rule mining. Accident Analysis and Prevention, 2020, 144, 105620. | 3.0 | 39 |
| 27 | 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 |
| 28 | Clustering driver behavior using dynamic time warping and hidden Markov model. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2021, 25, 249-262. | 2.6 | 37 |
| 29 | Development of Accident Modification Factors for Rural Frontage Road Segments in Texas Using Generalized Additive Models. Journal of Transportation Engineering, 2011, 137, 74-83. | 0.9 | 36 |
| 30 | Comparison of Sichel and Negative Binomial Models in Estimating Empirical Bayes Estimates. Transportation Research Record, 2013, 2392, 11-21. | 1.0 | 36 |
| 31 | 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 |
| 32 | Forecasting of Short-Term Metro Ridership with Support Vector Machine Online Model. Journal of Advanced Transportation, 2018, 2018, 1-13. | 0.9 | 33 |
| 33 | Investigating Emission Reduction Benefit From Intersection Signal Optimization. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2013, 17, 200-209. | 2.6 | 31 |
| 34 | Effects of on-Board Unit on Driving Behavior in Connected Vehicle Traffic Flow. Journal of Advanced Transportation, 2019, 2019, 1-12. | 0.9 | 30 |
| 35 | 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 |
| 36 | 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 |

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| 37 | Vehicle-to-vehicle connectivity on two parallel roadways with a general headway distribution. Transportation Research Part C: Emerging Technologies, 2013, 29, 84-96. | 3.9 | 24 |
| 38 | Person-Based Adaptive Priority Signal Control with Connected-Vehicle Information. Transportation Research Record, 2015, 2487, 78-87. | 1.0 | 24 |
| 39 | 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 |
| 40 | Route-Based Transit Signal Priority Using Connected Vehicle Technology to Promote Bus Schedule Adherence. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1174-1184. | 4.7 | 23 |
| 41 | Estimating Dispersion Parameter of Negative Binomial Distribution for Analysis of Crash Data. Transportation Research Record, 2007, 2019, 15-21. | 1.0 | 22 |
| 42 | Modeling Delay during Heavy Traffic for Signalized Intersections with Short Left-Turn Bays. Transportation Research Record, 2011, 2257, 103-110. | 1.0 | 21 |
| 43 | Constructing a bivariate distribution for freeway speed and headway data. Transportmetrica A: Transport Science, 2014, 10, 255-272. | 1.3 | 21 |
| 44 | Model for Optimization of Ecodriving at Signalized Intersections. Transportation Research Record, 2014, 2427, 54-62. | 1.0 | 20 |
| 45 | Mixture modeling of freeway speed and headway data using multivariate skew- <i>t</i> distributions. Transportmetrica A: Transport Science, 2017, 13, 657-678. | 1.3 | 20 |
| 46 | An Exact Markov Process for Multihop Connectivity via Intervehicle Communication on Parallel Roads. IEEE Transactions on Wireless Communications, 2012, 11, 865-868. | 6.1 | 19 |
| 47 | Assessing environmental impacts of ad-hoc truck platooning on multilane freeways. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2021, 25, 281-292. | 2.6 | 18 |
| 48 | Unscented Kalman Filter Method for Speed Estimation Using Single Loop Detector Data., 0,. | | 18 |
| 49 | Effect of Bicycles on the Saturation Flow Rate of Turning Vehicles at Signalized Intersections. Journal of Transportation Engineering, 2012, 138, 21-30. | 0.9 | 17 |
| 50 | Simulating near-road reactive dispersion of gaseous air pollutants using a three-dimensional Eulerian model. Science of the Total Environment, 2013, 454-455, 348-357. | 3.9 | 16 |
| 51 | 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 |
| 52 | Characterizing phone usage while driving: Safety impact from road and operational perspectives using factor analysis. Accident Analysis and Prevention, 2021, 152, 106012. | 3.0 | 16 |
| 53 | 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 |
| 54 | Mining patterns of near-crash events with and without secondary tasks. Accident Analysis and Prevention, 2021, 157, 106162. | 3.0 | 15 |

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| 55 | Research on drivers' hazard perception in plateau environment based on visual characteristics. Accident Analysis and Prevention, 2022, 166, 106540. | 3.0 | 14 |
| 56 | An Integrated Dilemma Zone Protection System Using Connected Vehicle Technology. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1714-1723. | 4.7 | 13 |
| 57 | 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 |
| 58 | Development of Urban Road Order Index Based on Driving Behavior and Speed Variation. Transportation Research Record, 2019, 2673, 466-478. | 1.0 | 13 |
| 59 | Pedestrian choices of vertical walking facilities inside urban rail transit stations. KSCE Journal of Civil Engineering, 2015, 19, 742-748. | 0.9 | 12 |
| 60 | Platoon recognition using connected vehicle technology. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 12-27. | 2.6 | 12 |
| 61 | Automated Accident Detection in Intersections via Digital Audio Signal Processing. Transportation Research Record, 2003, 1840, 186-192. | 1.0 | 11 |
| 62 | Systematic Validation of a Microscopic Traffic Simulation Program. Transportation Research Record, 2004, 1876, 112-120. | 1.0 | 11 |
| 63 | Analytical Models for Protected plus Permitted Left-Turn Capacity at Signalized Intersection with Heavy Traffic. Transportation Research Record, 2010, 2192, 177-184. | 1.0 | 11 |
| 64 | Bus Capacity Estimation using Stochastic Queuing Models for Isolated Bus Stops in China. Transportation Research Record, 2018, 2672, 108-120. | 1.0 | 11 |
| 65 | Applying an interpretable machine learning framework to the traffic safety order analysis of expressway exits based on aggregate driving behavior data. Physica A: Statistical Mechanics and Its Applications, 2022, 597, 127277. | 1.2 | 11 |
| 66 | 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. Transportation Letters, 2023, 15, 742-753. | 1.8 | 11 |
| 67 | Speed Estimation from Single Loop Data Using an Unscented Particle Filter. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 494-503. | 6.3 | 10 |
| 68 | Goodness-of-fit testing for accident models with low means. Accident Analysis and Prevention, 2013, 61, 78-86. | 3.0 | 10 |
| 69 | 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 |
| 70 | Short-term forecasting of urban rail transit ridership based on ARIMA and wavelet decomposition. AIP Conference Proceedings, 2018, , . | 0.3 | 10 |
| 71 | 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 |
| 72 | Patterns of near-crash events in a naturalistic driving dataset: Applying rules mining. Accident Analysis and Prevention, 2021, 161, 106346. | 3.0 | 10 |

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| 73 | Short Duration Crash Prediction for Rural Two-Lane Roadways: Applying Explainable Artificial Intelligence. Transportation Research Record, 2022, 2676, 535-549. | 1.0 | 10 |
| 74 | Bridge Deck Deterioration: Reasons and Patterns. Transportation Research Record, 2022, 2676, 570-584. | 1.0 | 8 |
| 75 | A multi-agent adaptive traffic signal control system using swarm intelligence and neuro-fuzzy reinforcement learning. , $2011, , .$ | | 7 |
| 76 | Maturity in Automated Driving on Public Roads: A Review of the Six-Year Autonomous Vehicle Tester Program. Transportation Research Record, 2022, 2676, 352-362. | 1.0 | 7 |
| 77 | A multinomial logit model: Safety risk analysis of interchange area based on aggregate driving behavior data. Journal of Safety Research, 2022, 80, 27-38. | 1.7 | 6 |
| 78 | Throughput-Optimal Scheduling for Multi-Hop Networked Transportation Systems With Switch-Over Delay., 2017,,. | | 5 |
| 79 | 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 |
| 80 | Inclusion of phone use while driving data in predicting distraction-affected crashes. Journal of Safety Research, 2021, 79, 321-328. | 1.7 | 5 |
| 81 | Efficient Missing Counts Imputation of a Bike-Sharing System by Generative Adversarial Network. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13443-13451. | 4.7 | 5 |
| 82 | Development of an Automated Accident Detection System at Intersections., 2004,, 153. | | 4 |
| 83 | TAMNROM-3D. Transportation Research Record, 2010, 2158, 61-68. | 1.0 | 4 |
| 84 | Bit-Error Aware Lossless Compression of Waveform Data. IEEE Signal Processing Letters, 2010, 17, 547-550. | 2.1 | 4 |
| 85 | 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 |
| 86 | Application of Genetic Neural Networks to Real-Time Intersection Accident Detection Using Acoustic Signals. , 0, . | | 4 |
| 87 | Bid-Based Priority Signal Control in a Connected Environment: Concept. Transportation Research Record, 2019, 2673, 737-747. | 1.0 | 3 |
| 88 | Modeling Capacity of Through Movement at Signalized Intersection Affected by Short Left-Turn Bay under Different Signal Settings. Transportation Research Record, 2021, 2675, 1209-1223. | 1.0 | 3 |
| 89 | In-Depth Understanding of Near-Crash Events Through Pattern Recognition. Transportation Research Record, 2022, 2676, 775-785. | 1.0 | 3 |
| 90 | A derivative-free nonlinear algorithm for speed estimation using data from single loop detectors. , 2006, , . | | 2 |

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| 91 | Left-Turn Spillback Probability Estimation in a Connected Vehicle Environment. Transportation Research Record, 2019, 2673, 753-761. | 1.0 | 2 |
| 92 | Hierarchical Longitudinal Control for Connected and Automated Vehicles in Mixed Traffic on a Signalized Arterial. Sustainability, 2021, 13, 8852. | 1.6 | 2 |
| 93 | Semi-Automatic Extraction of Geometric Elements of Curved Ramps from Google Earth Images. Sustainability, 2022, 14, 1001. | 1.6 | 2 |
| 94 | Application of Genetic Neural Networks to Real-Time Intersection Accident Detection Using Acoustic Signals. Transportation Research Record, 2006, 1968, 75-82. | 1.0 | 1 |
| 95 | Using an Interpretable Machine Learning Framework to Understand the Relationship of Mobility and Reliability Indices on Truck Drivers' Route Choices. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13419-13428. | 4.7 | 1 |
| 96 | 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 |
| 97 | Response to "Discussion Note on Paper â€^A Wavelet Network Model for Short-Term Traffic Volume Forecastingâ€â€™. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2008, 12, 99-101. | 2.6 | 0 |