

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 | An Improved Fuzzy Neural Network for Traffic Speed Prediction Considering Periodic Characteristic. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2340-2350. | 4.7 | 283 |
| 2 | Lane-changes prediction based on adaptive fuzzy neural network. Expert Systems With Applications, 2018, 91, 452-463. | 4.4 | 158 |
| 3 | Taxi trips distribution modeling based on Entropy-Maximizing theory: A case study in Harbin city—China. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 430-443. | 1.2 | 76 |
| 4 | 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 |
| 5 | 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 |
| 6 | Statistical and machine-learning methods for clearance time prediction of road incidents: A methodology review. Analytic Methods in Accident Research, 2020, 27, 100123. | 4.7 | 69 |
| 7 | Empirical Bayes estimates of finite mixture of negative binomial regression models and its application to highway safety. Journal of Applied Statistics, 2018, 45, 1652-1669. | 0.6 | 55 |
| 8 | A semi-nonparametric Poisson regression model for analyzing motor vehicle crash data. PLoS ONE, 2018, 13, e0197338. | 1.1 | 48 |
| 9 | Evaluation of Short-Term Freeway Speed Prediction Based on Periodic Analysis Using Statistical Models and Machine Learning Models. Journal of Advanced Transportation, 2020, 2020, 1-16. | 0.9 | 48 |
| 10 | Google Earth elevation data extraction and accuracy assessment for transportation applications. PLoS ONE, 2017, 12, e0175756. | 1.1 | 47 |
| 11 | 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 |
| 12 | Hybrid short-term freeway speed prediction methods based on periodic analysis. Canadian Journal of Civil Engineering, 2015, 42, 570-582. | 0.7 | 41 |
| 13 | 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 |
| 14 | Flexible and Robust Method for Missing Loop Detector Data Imputation. Transportation Research Record, 2015, 2527, 29-36. | 1.0 | 40 |
| 15 | Application of finite mixture models for analysing freeway incident clearance time. Transportmetrica A: Transport Science, 2016, 12, 99-115. | 1.3 | 40 |
| 16 | Assessing the Agreement among Pavement Condition Indexes. Journal of Transportation Engineering, 2010, 136, 765-772. | 0.9 | 39 |
| 17 | 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 |
| 18 | Travel Time Estimation Using Freeway Point Detector Data Based on Evolving Fuzzy Neural Inference System. PLoS ONE, 2016, 11, e0147263. | 1.1 | 38 |

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|----|--|-----|-----------|
| 19 | Comparison of Sichel and Negative Binomial Models in Estimating Empirical Bayes Estimates. <i>Transportation Research Record</i> , 2013, 2392, 11-21. | 1.0 | 36 |
| 20 | A Copula-Based Approach for Accommodating the Underreporting Effect in Wildlifeâ€™Vehicle Crash Analysis. <i>Sustainability</i> , 2019, 11, 418. | 1.6 | 36 |
| 21 | 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 |
| 22 | A temporal fusion transformer for short-term freeway traffic speed multistep prediction. <i>Neurocomputing</i> , 2022, 500, 329-340. | 3.5 | 35 |
| 23 | Modeling over-dispersed crash data with a long tail: Examining the accuracy of the dispersion parameter in Negative Binomial models. <i>Analytic Methods in Accident Research</i> , 2015, 5-6, 1-16. | 4.7 | 33 |
| 24 | Short-Term Speed Prediction Using Remote Microwave Sensor Data: Machine Learning versus Statistical Model. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-13. | 0.6 | 31 |
| 25 | Application of the Bayesian Model Averaging in Analyzing Freeway Traffic Incident Clearance Time for Emergency Management. <i>Journal of Advanced Transportation</i> , 2021, 2021, 1-9. | 0.9 | 31 |
| 26 | 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 |
| 27 | A copula-based approach to accommodate the dependence among microscopic traffic variables. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 70, 53-68. | 3.9 | 29 |
| 28 | Exploring the Impact of Climate and Extreme Weather on Fatal Traffic Accidents. <i>Sustainability</i> , 2021, 13, 390. | 1.6 | 29 |
| 29 | Vehicle Acceleration Prediction Based on Machine Learning Models and Driving Behavior Analysis. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5259. | 1.3 | 28 |
| 30 | Validation of Crash Modification Factors Derived from Cross-Sectional Studies with Regression Models. <i>Transportation Research Record</i> , 2015, 2514, 88-96. | 1.0 | 27 |
| 31 | Comparison of Sichel and Negative Binomial Models in Hot Spot Identification. <i>Transportation Research Record</i> , 2014, 2460, 107-116. | 1.0 | 25 |
| 32 | Constructing a bivariate distribution for freeway speed and headway data. <i>Transportmetrica A: Transport Science</i> , 2014, 10, 255-272. | 1.3 | 21 |
| 33 | Examining the effect of adverse weather on road transportation using weather and traffic sensors. <i>PLoS ONE</i> , 2018, 13, e0205409. | 1.1 | 21 |
| 34 | Model for Optimization of Ecodriving at Signalized Intersections. <i>Transportation Research Record</i> , 2014, 2427, 54-62. | 1.0 | 20 |
| 35 | Hybrid short-term prediction of traffic volume at ferry terminal based on data fusion. <i>IET Intelligent Transport Systems</i> , 2016, 10, 524-534. | 1.7 | 20 |
| 36 | Mixture modeling of freeway speed and headway data using multivariate skew- t distributions. <i>Transportmetrica A: Transport Science</i> , 2017, 13, 657-678. | 1.3 | 20 |

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|----|---|-----|-----------|
| 37 | A hybrid method for short-term freeway travel time prediction based on wavelet neural network and Markov chain. Canadian Journal of Civil Engineering, 2018, 45, 77-86. | 0.7 | 19 |
| 38 | Analysis of the Impact of Fog-Related Reduced Visibility on Traffic Parameters. Journal of Transportation Engineering Part A: Systems, 2018, 144, . | 0.8 | 17 |
| 39 | Comparative Analysis of Empirical Bayes and Bayesian Hierarchical Models in Hotspot Identification. Transportation Research Record, 2019, 2673, 111-121. | 1.0 | 17 |
| 40 | 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 |
| 41 | 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 |
| 42 | An adaptive map-matching algorithm based on hierarchical fuzzy system from vehicular GPS data. PLoS ONE, 2017, 12, e0188796. | 1.1 | 15 |
| 43 | 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 |
| 44 | On the development of a semi-nonparametric generalized multinomial logit model for travel-related choices. PLoS ONE, 2017, 12, e0186689. | 1.1 | 14 |
| 45 | Impact of Traffic Incidents on Reliability of Freeway Travel Times. Transportation Research Record, 2015, 2484, 90-98. | 1.0 | 13 |
| 46 | 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 |
| 47 | Long-term prediction for high-resolution lane-changing data using temporal convolution network. Transportmetrica B, 2022, 10, 849-863. | 1.4 | 9 |
| 48 | Comparative Analysis of the Reported Animal-Vehicle Collisions Data and Carcass Removal Data for Hotspot Identification. Journal of Advanced Transportation, 2019, 2019, 1-13. | 0.9 | 7 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | An Optimized Algorithm for Dangerous Driving Behavior Identification Based on Unbalanced Data. Electronics (Switzerland), 2022, 11, 1557. | 1.8 | 5 |

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|----|---|-----|-----------|
| 55 | Impact of Fog Conditions on Lane-Level Speeds on Freeways. Journal of Transportation Engineering Part A: Systems, 2020, 146, . | 0.8 | 4 |
| 56 | Finite mixture survival model for examining the variability of urban arterial travel time for buses, passenger cars and taxis. IET Intelligent Transport Systems, 2020, 14, 1524-1533. | 1.7 | 4 |
| 57 | Developing a Clustering-Based Empirical Bayes Analysis Method for Hotspot Identification. Journal of Advanced Transportation, 2017, 2017, 1-9. | 0.9 | 3 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | Level-Change Stackelberg Games Model for the Combined Traffic Assignmentâ€“Signal Control Equilibrium on Networks. Transportation Research Record, 2018, 2672, 24-35. | 1.0 | 1 |
| 62 | 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 |
| 63 | Multi-Depot Pickup and Delivery Problem with Resource Sharing. Journal of Advanced Transportation, 2021, 2021, 1-22. | 0.9 | 1 |
| 64 | Finite Mixture of the Hidden Markov Model for Driving Style Analysis. Journal of Advanced Transportation, 2022, 2022, 1-8. | 0.9 | 1 |
| 65 | Traffic Flow Conditions Associated with Truck-Involved Crashes on the Freeway. , 2014, , . | | 0 |
| 66 | Analysing the Impact of Traffic Incidents on the Travel Time Reliability of Freeway High-Occupancy Vehicle Lanes. Discrete Dynamics in Nature and Society, 2018, 2018, 1-12. | 0.5 | 0 |
| 67 | A Multivariate Modeling Analysis of Commutersâ€™ Non-Work Activity Allocations in Xiaoshan District of Hangzhou, China. Sustainability, 2019, 11, 5768. | 1.6 | 0 |