

Chengcheng Xu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8630551/chengcheng-xu-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,383
citations

28
h-index

46
g-index

106
ext. papers

2,936
ext. citations

4
avg, IF

5.72
L-index

#	Paper	IF	Citations
93	Using support vector machine models for crash injury severity analysis. <i>Accident Analysis and Prevention</i> , 2012 , 45, 478-86	6.1	157
92	The station-free sharing bike demand forecasting with a deep learning approach and large-scale datasets. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 95, 47-60	8.4	122
91	Predicting crash likelihood and severity on freeways with real-time loop detector data. <i>Accident Analysis and Prevention</i> , 2013 , 57, 30-9	6.1	122
90	Evaluation of the impacts of traffic states on crash risks on freeways. <i>Accident Analysis and Prevention</i> , 2012 , 47, 162-71	6.1	119
89	A combined use of microscopic traffic simulation and extreme value methods for traffic safety evaluation. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 90, 281-291	8.4	80
88	Reinforcement Learning-Based Variable Speed Limit Control Strategy to Reduce Traffic Congestion at Freeway Recurrent Bottlenecks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3204-3217	6.1	78
87	Identifying crash-prone traffic conditions under different weather on freeways. <i>Journal of Safety Research</i> , 2013 , 46, 135-44	4	78
86	A crash prediction method based on bivariate extreme value theory and video-based vehicle trajectory data. <i>Accident Analysis and Prevention</i> , 2019 , 123, 365-373	6.1	75
85	Exploring Bikesharing Travel Patterns and Trip Purposes Using Smart Card Data and Online Point of Interests. <i>Networks and Spatial Economics</i> , 2017 , 17, 1231-1253	1.9	74
84	Exploring unobserved heterogeneity in bicyclists' red-light running behaviors at different crossing facilities. <i>Accident Analysis and Prevention</i> , 2018 , 115, 118-127	6.1	70
83	A Genetic Programming Model for Real-Time Crash Prediction on Freeways. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 574-586	6.1	70
82	Development of a variable speed limit strategy to reduce secondary collision risks during inclement weathers. <i>Accident Analysis and Prevention</i> , 2014 , 72, 134-45	6.1	63
81	Comparing Prediction Performance for Crash Injury Severity Among Various Machine Learning and Statistical Methods. <i>IEEE Access</i> , 2018 , 6, 60079-60087	3.5	63
80	Evaluating factors affecting electric bike users' registration of license plate in China using Bayesian approach. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018 , 59, 212-221	4.5	55
79	Association rule analysis of factors contributing to extraordinarily severe traffic crashes in China. <i>Journal of Safety Research</i> , 2018 , 67, 65-75	4	49
78	Using the Bayesian updating approach to improve the spatial and temporal transferability of real-time crash risk prediction models. <i>Transportation Research Part C: Emerging Technologies</i> , 2014 , 38, 167-176	8.4	48
77	Integrated Cooperative Adaptive Cruise and Variable Speed Limit Controls for Reducing Rear-End Collision Risks Near Freeway Bottlenecks Based on Micro-Simulations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3157-3167	6.1	45

76	Quantitative risk assessment of freeway crash casualty using high-resolution traffic data. <i>Reliability Engineering and System Safety</i> , 2018 , 169, 299-311	6.3	45
75	Short-term prediction of safety and operation impacts of lane changes in oscillations with empirical vehicle trajectories. <i>Accident Analysis and Prevention</i> , 2020 , 135, 105345	6.1	44
74	Development of a Control Strategy of Variable Speed Limits to Reduce Rear-End Collision Risks Near Freeway Recurrent Bottlenecks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 866-877	6.1	43
73	Incorporating twitter-based human activity information in spatial analysis of crashes in urban areas. <i>Accident Analysis and Prevention</i> , 2017 , 106, 358-369	6.1	43
72	Real-time estimation of secondary crash likelihood on freeways using high-resolution loop detector data. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 71, 406-418	8.4	43
71	Red Light Running Behavior of Electric Bicycles at Signalized Intersections in China. <i>Transportation Research Record</i> , 2014 , 2468, 28-37	1.7	40
70	Operational analysis of the contraflow left-turn lane design at signalized intersections in China. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 69, 228-241	8.4	39
69	Modeling faults among e-bike-related fatal crashes in China. <i>Traffic Injury Prevention</i> , 2017 , 18, 175-181	1.8	39
68	Development of a real-time crash risk prediction model incorporating the various crash mechanisms across different traffic states. <i>Traffic Injury Prevention</i> , 2015 , 16, 28-35	1.8	34
67	Effects of transverse rumble strips on safety of pedestrian crosswalks on rural roads in China. <i>Accident Analysis and Prevention</i> , 2011 , 43, 1947-1954	6.1	34
66	SHORT-TERM TRAFFIC FLOW PREDICTION USING A METHODOLOGY BASED ON AUTOREGRESSIVE INTEGRATED MOVING AVERAGE AND GENETIC PROGRAMMING. <i>Transport</i> , 2016 , 31, 343-358	1.4	28
65	Analyzing Travelers' Intention to Accept Travel Information: Structural Equation Modeling. <i>Transportation Research Record</i> , 2010 , 2156, 93-100	1.7	28
64	Optimal Mainline Variable Speed Limit Control to Improve Safety on Large-Scale Freeway Segments. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016 , 31, 366-380	8.4	28
63	Two-echelon logistics delivery and pickup network optimization based on integrated cooperation and transportation fleet sharing. <i>Expert Systems With Applications</i> , 2018 , 113, 44-65	7.8	27
62	Evaluation of the impacts of speed variation on freeway traffic collisions in various traffic states. <i>Traffic Injury Prevention</i> , 2013 , 14, 861-6	1.8	26
61	Calibration of crash risk models on freeways with limited real-time traffic data using Bayesian meta-analysis and Bayesian inference approach. <i>Accident Analysis and Prevention</i> , 2015 , 85, 207-18	6.1	25
60	Statistical analysis of the patterns and characteristics of connected and autonomous vehicle involved crashes. <i>Journal of Safety Research</i> , 2019 , 71, 41-47	4	25
59	Longitudinal safety impacts of cooperative adaptive cruise control vehicle's degradation. <i>Journal of Safety Research</i> , 2019 , 69, 177-192	4	23

58	Investigating the relationship between jobs-housing balance and traffic safety. <i>Accident Analysis and Prevention</i> , 2017 , 107, 126-136	6.1	22
57	Identification of freeway crash-prone traffic conditions for traffic flow at different levels of service. <i>Transportation Research, Part A: Policy and Practice</i> , 2014 , 69, 58-70	3.7	21
56	Safety performance of traffic phases and phase transitions in three phase traffic theory. <i>Accident Analysis and Prevention</i> , 2015 , 85, 45-57	6.1	19
55	Evaluation of the predictability of real-time crash risk models. <i>Accident Analysis and Prevention</i> , 2016 , 94, 207-15	6.1	18
54	A geographically weighted regression approach to investigate the effects of traffic conditions and road characteristics on air pollutant emissions. <i>Journal of Cleaner Production</i> , 2019 , 239, 118084	10.3	18
53	Predicting Future Driving Risk of Crash-Involved Drivers Based on a Systematic Machine Learning Framework. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	17
52	Multi-objective optimization of urban bus network using cumulative prospect theory. <i>Journal of Systems Science and Complexity</i> , 2015 , 28, 661-678	1	17
51	Effects of the London Cycle Superhighways on the usage of the London Cycle Hire. <i>Transportation Research, Part A: Policy and Practice</i> , 2018 , 111, 304-315	3.7	14
50	Strategy for Multiobjective Transit Signal Priority with Prediction of Bus Dwell Time at Stops. <i>Transportation Research Record</i> , 2015 , 2488, 10-19	1.7	14
49	The effects of safety knowledge and psychological factors on self-reported risky driving behaviors including group violations for e-bike riders in China. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018 , 56, 344-353	4.5	14
48	Exploring Passenger Assessments of Bus Service Quality Using Bayesian Networks. <i>Journal of Public Transportation</i> , 2016 , 19, 36-54	26.8	13
47	Identifying factors affecting the safety of mid-block bicycle lanes considering mixed 2-wheeled traffic flow. <i>Traffic Injury Prevention</i> , 2017 , 18, 761-766	1.8	10
46	Investigating the factors affecting secondary crash frequency caused by one primary crash using zero-inflated ordered probit regression. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 524, 121-129	3.3	10
45	Identifying factors affecting drivers' selection of unconventional outside left-turn lanes at signallised intersections. <i>IET Intelligent Transport Systems</i> , 2013 , 7, 396-403	2.4	10
44	Identifying the crash characteristics on freeway segments based on different ramp influence areas. <i>Traffic Injury Prevention</i> , 2019 , 20, 386-391	1.8	9
43	Comparing the effects of ramp metering and variable speed limit on reducing travel time and crash risk at bottlenecks. <i>IET Intelligent Transport Systems</i> , 2018 , 12, 120-126	2.4	9
42	Development of a crash risk index to identify real time crash risks on freeways. <i>KSCE Journal of Civil Engineering</i> , 2013 , 17, 1788-1797	1.9	9
41	Non-linear fixed and multi-level random effects of origin-destination specific attributes on route choice behaviour. <i>IET Intelligent Transport Systems</i> , 2019 , 13, 654-660	2.4	9

40	Development of analytical procedure for selection of control measures to reduce congestions at various freeway bottlenecks. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2018 , 22, 65-85	3.2	8
39	Driver Response to Automated Speed Enforcement on Rural Highways in China. <i>Transportation Research Record</i> , 2011 , 2265, 109-117	1.7	8
38	Real-time identification of traffic conditions prone to injury and non-injury crashes on freeways using genetic programming. <i>Journal of Advanced Transportation</i> , 2016 , 50, 701-716	1.9	8
37	Multiobjective Evaluation of Midblock Crosswalks on Urban Streets Based on TOPSIS and Entropy Methods. <i>Transportation Research Record</i> , 2016 , 2586, 59-71	1.7	8
36	A deep learning approach to real-time CO concentration prediction at signalized intersection. <i>Atmospheric Pollution Research</i> , 2020 , 11, 1370-1378	4.5	7
35	Investigation of extremely severe traffic crashes using fault tree analysis. <i>Transportation Letters</i> , 2020 , 12, 149-156	2.1	7
34	Utilizing Structural Equation Modeling and Segmentation Analysis in Real-time Crash Risk Assessment on Freeways. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 2569-2577	1.9	7
33	Analysis of the Risk Factors Affecting the Size of Fatal Accidents Involving Trucks Based on the Structural Equation Model. <i>Transportation Research Record</i> , 2019 , 2673, 112-124	1.7	6
32	Analysis of Freeway Secondary Crashes With a Two-Step Method by Loop Detector Data. <i>IEEE Access</i> , 2019 , 7, 22884-22890	3.5	6
31	Reinforcement Learning-Based Variable Speed Limits Control to Reduce Crash Risks near Traffic Oscillations on Freeways. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 1-1	2.6	6
30	Using empirical traffic trajectory data for crash risk evaluation under three-phase traffic theory framework. <i>Accident Analysis and Prevention</i> , 2021 , 157, 106191	6.1	6
29	Investigating the predictability of crashes on different freeway segments using the real-time crash risk models. <i>Accident Analysis and Prevention</i> , 2021 , 159, 106213	6.1	6
28	Investigating Dominant Trip Distance for Intercity Passenger Transport Mode Using Large-Scale Location-Based Service Data. <i>Sustainability</i> , 2019 , 11, 5325	3.6	5
27	Procedure for Determining the Deployment Locations of Variable Speed Limit Signs to Reduce Crash Risks at Freeway Recurrent Bottlenecks. <i>IEEE Access</i> , 2019 , 7, 47856-47863	3.5	5
26	Can we trust the speed-spacing relationship estimated by car-following model from non-stationary trajectory data?. <i>Transportmetrica A: Transport Science</i> , 2019 , 15, 263-284	2.5	5
25	Evaluating the Effects of Household Characteristics on Household Daily Traffic Emissions Based on Household Travel Survey Data. <i>Sustainability</i> , 2019 , 11, 1684	3.6	4
24	Evaluation of the safety performance of highway alignments based on fault tree analysis and safety boundaries. <i>Traffic Injury Prevention</i> , 2018 , 19, 409-416	1.8	4
23	Traffic safety analysis of inter-tunnel weaving section with conflict prediction models. <i>Journal of Transportation Safety and Security</i> , 2020 , 1-25	1.7	4

22	Deep Reinforcement Learning-Based Vehicle Driving Strategy to Reduce Crash Risks in Traffic Oscillations. <i>Transportation Research Record</i> , 2020 , 2674, 42-54	1.7	4
21	Understand the impact of traffic states on crash risk in the vicinities of Type A weaving segments: A deep learning approach. <i>Accident Analysis and Prevention</i> , 2021 , 159, 106293	6.1	4
20	Assessing injury severity of secondary incidents using support vector machines. <i>Journal of Transportation Safety and Security</i> , 2020 , 1-20	1.7	3
19	Effects of traffic enforcement cameras on macro-level traffic safety: A spatial modeling analysis considering interactions with roadway and Land use characteristics. <i>Accident Analysis and Prevention</i> , 2020 , 144, 105659	6.1	3
18	Evaluation of average travel delay caused by moving bottlenecks on highways. <i>PLoS ONE</i> , 2017 , 12, e0183442	3.7	3
17	Investigating Spatial Interdependence in E-Bike Choice Using Spatially Autoregressive Model. <i>Promet - Traffic - Traffico</i> , 2017 , 29, 351-362	1.2	3
16	Simulating and analyzing the effect on travel behavior of residential relocation and corresponding traffic demand management strategies. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 837-849	1.9	3
15	Investigation of contributing factors to extremely severe traffic crashes using survival theory. <i>International Journal of Injury Control and Safety Promotion</i> , 2018 , 25, 141-153	1.8	2
14	Understanding Factors Affecting Frequency of Traffic Conflicts between Electric Bicycles and Motorized Vehicles at Signalized Intersections. <i>Transportation Research Record</i> , 2015 , 2514, 68-78	1.7	2
13	Modeling the Spatial Effects of Land-Use Patterns on Traffic Safety Using Geographically Weighted Poisson Regression. <i>Networks and Spatial Economics</i> , 2020 , 20, 1015	1.9	2
12	Analysis of E-bike Trip Duration and Frequency by Bayesian Duration and Zero-inflated Count Models. <i>KSCE Journal of Civil Engineering</i> , 2019 , 23, 1806-1818	1.9	1
11	Developing a New Spatial Unit for Macroscopic Safety Evaluation Based on Traffic Density Homogeneity. <i>Journal of Advanced Transportation</i> , 2020 , 2020, 1-9	1.9	1
10	Identification of Non-Green Channel Vehicles at Highway Toll Gate Based on Logistic Regression Model 2019 ,		1
9	Combined variable speed limit and lane change guidance for secondary crash prevention using distributed deep reinforcement learning. <i>Journal of Transportation Safety and Security</i> , 1-26	1.7	1
8	An optimal control-based vehicle speed guidance strategy to improve traffic safety and efficiency against freeway jam waves. <i>Accident Analysis and Prevention</i> , 2021 , 163, 106429	6.1	1
7	Estimation of Value of Statistical Life Using Willingness-to-Pay Method: A Focus on Hangzhou, China 2019 ,		1
6	A Real-Time Vehicle Emission Prediction Model for Freeway Segments Based on Trajectory Data 2018 ,		1
5	On the Effects of Various Measures of Performance Selections on Simulation Model Calibration Performance. <i>Journal of Advanced Transportation</i> , 2018 , 2018, 1-16	1.9	1

4	Investigating the impacts of driving restriction on NO ₂ concentration by integrating citywide scale cellular data and traffic simulation. <i>Atmospheric Environment</i> , 2021 , 265, 118721	5.3	1
3	Safety effects of road pavement resurfacing: A case study of city-wide scale projects in China. <i>Journal of Transportation Safety and Security</i> , 2020 , 1-20	1.7	0
2	A Markov switching regression analysis of freeway crash risks considering spatial effect. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2020 , 173, 159-170	0.5	0
1	Evaluating the Combined Effects of Weather and Real-Time Traffic Conditions on Freeway Crash Risks. <i>Weather, Climate, and Society</i> , 2018 , 10, 837-850	2.3	0