

Jun Liu

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,384
citations

393982

19
h-index

360668

35
g-index

47
all docs

47
docs citations

47
times ranked

1106
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking a system of shared autonomous vehicles across the Austin, Texas network using agent-based simulation. <i>Transportation</i> , 2017, 44, 1261-1278.	2.1	154
2	Shared autonomous electric vehicle (SAEV) operations across the Austin, Texas network with charging infrastructure decisions. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 89, 222-233.	3.9	150
3	Delivering improved alerts, warnings, and control assistance using basic safety messages transmitted between connected vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 68, 83-100.	3.9	86
4	What is the level of volatility in instantaneous driving decisions?. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 58, 413-427.	3.9	80
5	Pedestrian injury severity in motor vehicle crashes: An integrated spatio-temporal modeling approach. <i>Accident Analysis and Prevention</i> , 2019, 132, 105272.	3.0	64
6	What are the differences in driver injury outcomes at highway-rail grade crossings? Untangling the role of pre-crash behaviors. <i>Accident Analysis and Prevention</i> , 2015, 85, 157-169.	3.0	59
7	Do safety performance functions used for predicting crash frequency vary across space? Applying geographically weighted regressions to account for spatial heterogeneity. <i>Accident Analysis and Prevention</i> , 2017, 109, 132-142.	3.0	55
8	Modeling Traffic Incident Duration Using Quantile Regression. <i>Transportation Research Record</i> , 2016, 2554, 139-148.	1.0	51
9	Non-crossing rail-trespassing crashes in the past decade: A spatial approach to analyzing injury severity. <i>Safety Science</i> , 2016, 82, 44-55.	2.6	45
10	Gate-violation behavior at highway-rail grade crossings and the consequences: Using geo-Spatial modeling integrated with path analysis. <i>Accident Analysis and Prevention</i> , 2017, 109, 99-112.	3.0	45
11	Customizing driving cycles to support vehicle purchase and use decisions: Fuel economy estimation for alternative fuel vehicle users. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 67, 280-298.	3.9	40
12	Bicyclist injury severity in traffic crashes: A spatial approach for geo-referenced crash data to uncover non-stationary correlates. <i>Journal of Safety Research</i> , 2020, 73, 25-35.	1.7	40
13	The role of alternative fuel vehicles: Using behavioral and sensor data to model hierarchies in travel. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 55, 379-392.	3.9	35
14	Fuel consumption for various driving styles in conventional and hybrid electric vehicles: Integrating driving cycle predictions with fuel consumption optimization. <i>International Journal of Sustainable Transportation</i> , 2019, 13, 123-137.	2.1	32
15	A spatiotemporal analysis of motorcyclist injury severity: Findings from 20 years of crash data from Pennsylvania. <i>Accident Analysis and Prevention</i> , 2021, 151, 105952.	3.0	31
16	A comparative study of rail-pedestrian trespassing crash injury severity between highway-rail grade crossings and non-crossings. <i>Accident Analysis and Prevention</i> , 2018, 117, 427-438.	3.0	30
17	What is the evidence concerning the gap between on-road and Environmental Protection Agency fuel economy ratings?. <i>Transport Policy</i> , 2017, 53, 146-160.	3.4	28
18	A comparative study of driving performance in metropolitan regions using large-scale vehicle trajectory data: Implications for sustainable cities. <i>International Journal of Sustainable Transportation</i> , 2017, 11, 170-185.	2.1	26

#	ARTICLE	IF	CITATIONS
19	A spatial analysis of the ownership of alternative fuel and hybrid vehicles. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 77, 106-119.	3.2	25
20	What Role Do Precrash Driver Actions Play in Work Zone Crashes?: Application of Hierarchical Models to Crash Data. <i>Transportation Research Record</i> , 2016, 2555, 1-11.	1.0	24
21	How big data serves for freight safety management at highway-rail grade crossings? A spatial approach fused with path analysis. <i>Neurocomputing</i> , 2016, 181, 38-52.	3.5	22
22	Understanding how relationships between crash frequency and correlates vary for multilane rural highways: Estimating geographically and temporally weighted regression models. <i>Accident Analysis and Prevention</i> , 2021, 157, 106146.	3.0	22
23	Revisiting Hit-and-Run Crashes: A Geo-Spatial Modeling Method. <i>Transportation Research Record</i> , 2018, 2672, 81-92.	1.0	21
24	An integrated spatio-temporal approach to examine the consequences of driving under the influence (DUI) in crashes. <i>Accident Analysis and Prevention</i> , 2020, 146, 105742.	3.0	19
25	Analyzing within garage fuel economy gaps to support vehicle purchasing decisions – A copula-based modeling & forecasting approach. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 63, 186-208.	3.2	17
26	How does on-road fuel economy vary with vehicle cumulative mileage and daily use?. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 55, 142-161.	3.2	16
27	Are gates at rail grade crossings always safe? Examining motorist gate-violation behaviors using path analysis. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018, 55, 314-324.	1.8	15
28	Are young Americans carless across the United States? A spatial analysis. <i>Transportation Research, Part D: Transport and Environment</i> , 2020, 78, 102197.	3.2	15
29	Informed decision-making by integrating historical on-road driving performance data in high-resolution maps for connected and automated vehicles. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2020, 24, 11-23.	2.6	15
30	Severity of emergency natural gas distribution pipeline incidents: Application of an integrated spatio-temporal approach fused with text mining. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 69, 104383.	1.7	13
31	Driver behavior at highway-rail grade crossings with passive traffic controls: A driving simulator study. <i>Journal of Transportation Safety and Security</i> , 2016, 8, 37-55.	1.1	12
32	Is the front passenger seat always the “death seat”? An application of a hierarchical ordered probit model for occupant injury severity. <i>International Journal of Injury Control and Safety Promotion</i> , 2020, 27, 438-446.	1.0	12
33	Challenging human driver taxis with shared autonomous vehicles: a case study of Chicago. <i>Transportation Letters</i> , 2020, 12, 701-705.	1.8	11
34	How do college students perceive future shared mobility with autonomous Vehicles? A survey of the University of Alabama students. <i>International Journal of Transportation Science and Technology</i> , 2022, 11, 189-204.	2.0	9
35	Integrating machine learning into path analysis for quantifying behavioral pathways in bicycle-motor vehicle crashes. <i>Accident Analysis and Prevention</i> , 2022, 168, 106622.	3.0	8
36	Pathway analysis of relationships among community development, active travel behavior, body mass index, and self-rated health. <i>International Journal of Sustainable Transportation</i> , 2022, 16, 340-356.	2.1	7

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37	Behavioral pathways in bicycle-motor vehicle crashes: From contributing factors, pre-crash actions, to injury severities. <i>Journal of Safety Research</i> , 2021, 77, 229-240.	1.7	7
38	Constructing spatiotemporal driving volatility profiles for connected and automated vehicles in existing highway networks. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2022, 26, 572-585.	2.6	7
39	Heterogeneity assessment in incident duration modelling: Implications for development of practical strategies for small & large scale incidents. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2022, 26, 586-601.	2.6	7
40	From the past to the future: Modeling the temporal instability of safety performance functions. <i>Accident Analysis and Prevention</i> , 2022, 167, 106592.	3.0	7
41	Bayesian Approach to Developing Context-Based Crash Modification Factors for Medians on Rural Four-Lane Roadways. <i>Transportation Research Record</i> , 2021, 2675, 1316-1330.	1.0	6
42	Fuel economy gaps within and across garages: A bivariate random parameters seemingly unrelated regression approach. <i>International Journal of Sustainable Transportation</i> , 2019, 13, 324-339.	2.1	4
43	How much information is lost when sampling driving behavior data? Indicators to quantify the extent of information loss. <i>Journal of Intelligent and Connected Vehicles</i> , 2020, 3, 17-29.	3.6	4
44	An Analysis of the Effects of Crash Factors and Pre-crash Actions on Side Impact Crashes at Unsignalized Intersections. <i>Journal of Advanced Transportation</i> , 2021, 2021, 1-17.	0.9	3
45	A comparative study of factors associated with motorcycle crash severities under different causal scenarios. <i>Journal of Transportation Safety and Security</i> , 2023, 15, 376-396.	1.1	3
46	A low-cost approach to identify hazard curvature for local road networks using open-source data. <i>Transportation Research Interdisciplinary Perspectives</i> , 2021, 10, 100393.	1.6	1
47	Enabling Transportation Networks with Automated Vehicles: From Individual Vehicle Motion Control to Networked Fleet Management. <i>Lecture Notes in Mobility</i> , 2020, , 49-62.	0.2	1