Jaeyoung Lee

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7760930/publications.pdf

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124	3,894	101384	155451
papers	citations	36 h-index	55 g-index

124	124	124	1935
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multivariate crash modeling for motor vehicle and non-motorized modes at the macroscopic level. Accident Analysis and Prevention, 2015, 78, 146-154.	3.0	153
2	Macro-level pedestrian and bicycle crash analysis: Incorporating spatial spillover effects in dual state count models. Accident Analysis and Prevention, 2016, 93, 14-22.	3.0	149
3	Geographical unit based analysis in the context of transportation safety planning. Transportation Research, Part A: Policy and Practice, 2013, 49, 62-75.	2.0	102
4	Macro and micro models for zonal crash prediction with application in hot zones identification. Journal of Transport Geography, 2016, 54, 248-256.	2.3	100
5	Crash risk analysis during fog conditions using real-time traffic data. Accident Analysis and Prevention, 2018, 114, 4-11.	3.0	100
6	Multi-level hot zone identification for pedestrian safety. Accident Analysis and Prevention, 2015, 76, 64-73.	3.0	98
7	Development of zone system for macro-level traffic safety analysis. Journal of Transport Geography, 2014, 38, 13-21.	2.3	95
8	Safety benefits of arterialsâ€™ crash risk under connected and automated vehicles. Transportation Research Part C: Emerging Technologies, 2019, 100, 354-371.	3.9	92
9	Real-time crash prediction on expressways using deep generative models. Transportation Research Part C: Emerging Technologies, 2020, 117, 102697.	3.9	92
10	Macroscopic hotspots identification: A Bayesian spatio-temporal interaction approach. Accident Analysis and Prevention, 2016, 92, 256-264.	3.0	88
11	Developing an algorithm to assess the rear-end collision risk under fog conditions using real-time data. Transportation Research Part C: Emerging Technologies, 2018, 87, 11-25.	3.9	87
12	Intersection crash prediction modeling with macro-level data from various geographic units. Accident Analysis and Prevention, 2017, 102, 213-226.	3.0	86
13	Effects of Pavement Surface Conditions on Traffic Crash Severity. Journal of Transportation Engineering, 2015, 141, .	0.9	84
14	Analysis of real-time crash risk for expressway ramps using traffic, geometric, trip generation, and socio-demographic predictors. Accident Analysis and Prevention, 2019, 122, 378-384.	3.0	75
15	Comparative analysis of zonal systems for macro-level crash modeling. Journal of Safety Research, 2017, 61, 157-166.	1.7	68
16	Analysis of crash proportion by vehicle type at traffic analysis zone level: A mixed fractional split multinomial logit modeling approach with spatial effects. Accident Analysis and Prevention, 2018, 111, 12-22.	3.0	66
17	A Bayesian ridge regression analysis of congestion's impact on urban expressway safety. Accident Analysis and Prevention, 2016, 88, 124-137.	3.0	64
18	Developing a grouped random parameters multivariate spatial model to explore zonal effects for segment and intersection crash modeling. Analytic Methods in Accident Research, 2018, 19, 1-15.	4.7	61

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19	Real-time assessment of fog-related crashes using airport weather data: A feasibility analysis. Accident Analysis and Prevention, 2014, 72, 309-317.	3.0	60
20	Investigating the Impacts of Real-Time Weather Conditions on Freeway Crash Severity: A Bayesian Spatial Analysis. International Journal of Environmental Research and Public Health, 2020, 17, 2768.	1.2	60
21	Developing crash modification functions to assess safety effects of adding bike lanes for urban arterials with different roadway and socio-economic characteristics. Accident Analysis and Prevention, 2015, 74, 179-191.	3.0	59
22	Analysis of residence characteristics of at-fault drivers in traffic crashes. Safety Science, 2014, 68, 6-13.	2.6	58
23	Joint Modeling of Pedestrian and Bicycle Crashes: Copula-Based Approach. Transportation Research Record, 2016, 2601, 119-127.	1.0	57
24	Analysis of the transition condition of rear-end collisions using time-to-collision index and vehicle trajectory data. Accident Analysis and Prevention, 2020, 144, 105676.	3.0	49
25	Investigating drivers' mandatory lane change behavior on the weaving section of freeway with managed lanes: A driving simulator study. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 62, 11-32.	1.8	48
26	Review on big data applications in safety research of intelligent transportation systems and connected/automated vehicles. Accident Analysis and Prevention, 2020, 146, 105711.	3.0	48
27	Investigating macro-level hotzone identification and variable importance using big data: A random forest models approach. Neurocomputing, 2016, 181, 53-63.	3.5	47
28	Macro-level vulnerable road users crash analysis: A Bayesian joint modeling approach of frequency and proportion. Accident Analysis and Prevention, 2017, 107, 11-19.	3.0	47
29	Evaluation of surrogate measures for pedestrian trips at intersections and crash modeling. Accident Analysis and Prevention, 2019, 130, 91-98.	3.0	46
30	Safety analytics for integrating crash frequency and real-time risk modeling for expressways. Accident Analysis and Prevention, 2017, 104, 58-64.	3.0	45
31	A Bayesian multivariate hierarchical spatial joint model for predicting crash counts by crash type at intersections and segments along corridors. Accident Analysis and Prevention, 2018, 119, 263-273.	3.0	45
32	Exploring the transferability of safety performance functions. Accident Analysis and Prevention, 2016, 94, 143-152.	3.0	44
33	Understanding the Highway Safety Benefits of Different Approaches of Connected Vehicles in Reduced Visibility Conditions. Transportation Research Record, 2018, 2672, 91-101.	1.0	44
34	Crash modeling for intersections and segments along corridors: A Bayesian multilevel joint model with random parameters. Analytic Methods in Accident Research, 2017, 16, 48-59.	4.7	43
35	Analyzing driversâ€™ preferences and choices for the content and format of variable message signs (VMS). Transportation Research Part C: Emerging Technologies, 2019, 100, 1-14.	3.9	42
36	Utilizing bluetooth and adaptive signal control data for real-time safety analysis on urban arterials. Transportation Research Part C: Emerging Technologies, 2018, 97, 114-127.	3.9	39

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37	Investigation of associations between marijuana law changes and marijuana-involved fatal traffic crashes: A state-level analysis. Journal of Transport and Health, 2018, 10, 194-202.	1.1	39
38	Effects of emergency medical services times on traffic injury severity: A random effects ordered probit approach. Traffic Injury Prevention, 2018, 19, 577-581.	0.6	38
39	A high-resolution trajectory data driven method for real-time evaluation of traffic safety. Accident Analysis and Prevention, 2022, 165, 106503.	3.0	38
40	Public Intentions to Purchase Electric Vehicles in Pakistan. Sustainability, 2021, 13, 5523.	1.6	36
41	Modeling the effect of electric vehicle adoption on pedestrian traffic safety: An agent-based approach. Transportation Research Part C: Emerging Technologies, 2018, 93, 198-210.	3.9	35
42	Using vehicular trajectory data to explore risky factors and unobserved heterogeneity during lane-changing. Accident Analysis and Prevention, 2021, 151, 105871.	3.0	35
43	Use of empirical and full Bayes beforeâ€“after approaches to estimate the safety effects of roadside barriers with different crash conditions. Journal of Safety Research, 2016, 58, 31-40.	1.7	34
44	Investigating varying effect of road-level factors on crash frequency across regions: A Bayesian hierarchical random parameter modeling approach. Analytic Methods in Accident Research, 2018, 20, 81-91.	4.7	34
45	Modeling unobserved heterogeneity for zonal crash frequencies: A Bayesian multivariate random-parameters model with mixture components for spatially correlated data. Analytic Methods in Accident Research, 2019, 24, 100105.	4.7	32
46	Implementation of Active Traffic Management Strategies for Safety on Congested Expressway Weaving Segments. Transportation Research Record, 2017, 2635, 28-35.	1.0	31
47	Ordered Fractional Split Approach for Aggregate Injury Severity Modeling. Transportation Research Record, 2016, 2583, 119-126.	1.0	30
48	Applying a deep learning approach for transportation safety planning by using high-resolution transportation and land use data. Transportation Research, Part A: Policy and Practice, 2019, 127, 71-85.	2.0	30
49	Analysis of driving behavior at expressway toll plazas. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 61, 163-177.	1.8	30
50	Macro-level analysis of bicycle safety: Focusing on the characteristics of both crash location and residence. International Journal of Sustainable Transportation, 2018, 12, 553-560.	2.1	29
51	Integrating macro- and micro-level safety analyses: a Bayesian approach incorporating spatial interaction. Transportmetrica A: Transport Science, 2019, 15, 285-306.	1.3	29
52	Impacts of COVID-19 on individualsâ€™ mobility behavior in Pakistan based on self-reported responses. Journal of Transport and Health, 2021, 22, 101228.	1.1	27
53	Safety improvements by intelligent connected vehicle technologies: A meta-analysis considering market penetration rates. Accident Analysis and Prevention, 2021, 159, 106234.	3.0	26
54	A new approach for calibrating safety performance functions. Accident Analysis and Prevention, 2018, 119, 188-194.	3.0	25

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55	Bicycle Safety Analysis at Intersections from Crowdsourced Data. Transportation Research Record, 2019, 2673, 1-14.	1.0	25
56	Identifying motorcycle high-risk traffic scenarios through interactive analysis of driver behavior and traffic characteristics. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 62, 844-854.	1.8	25
57	Safety Impact of Weaving Distance on Freeway Facilities with Managed Lanes using Both Microscopic Traffic and Driving Simulations. Transportation Research Record, 2018, 2672, 130-141.	1.0	24
58	Comparative analysis of multiple techniques for developing and transferring safety performance functions. Accident Analysis and Prevention, 2019, 122, 85-98.	3.0	24
59	Identifying Factors Contributing to the Motorcycle Crash Severity in Pakistan. Journal of Advanced Transportation, 2021, 2021, 1-10.	0.9	24
60	Transferring and calibrating safety performance functions among multiple States. Accident Analysis and Prevention, 2018, 117, 276-287.	3.0	23
61	Spatial heterogeneity analysis of macro-level crashes using geographically weighted Poisson quantile regression. Accident Analysis and Prevention, 2020, 148, 105833.	3.0	22
62	The dynamic tradeoff between safety and efficiency in discretionary lane-changing behavior: A random parameters logit approach with heterogeneity in means and variances. Accident Analysis and Prevention, 2021, 153, 106036.	3.0	22
63	Enhancing traffic safety at school zones by operation and engineering countermeasures: A microscopic simulation approach. Simulation Modelling Practice and Theory, 2019, 94, 334-348.	2.2	21
64	Is the safety-in-numbers effect still observed in areas with low pedestrian activities? A case study of a suburban area in the United States. Accident Analysis and Prevention, 2019, 125, 116-123.	3.0	21
65	Investigating Spatial Autocorrelation and Spillover Effects in Freeway Crash-Frequency Data. International Journal of Environmental Research and Public Health, 2019, 16, 219.	1.2	20
66	Transportation Safety Planning Approach for Pedestrians: An Integrated Framework of Modeling Walking Duration and Pedestrian Fatalities. Transportation Research Record, 2019, 2673, 898-906.	1.0	20
67	Modeling accident risks in different lane-changing behavioral patterns. Analytic Methods in Accident Research, 2021, 30, 100159.	4.7	20
68	Changes in Peopleâ€™s Mobility Behavior in Greece after the COVID-19 Outbreak. Sustainability, 2022, 14, 3567.	1.6	20
69	Exploring transition durations of rear-end collisions based on vehicle trajectory data: A survival modeling approach. Accident Analysis and Prevention, 2021, 159, 106271.	3.0	19
70	Application of Bayesian informative priors to enhance the transferability of safety performance functions. Journal of Safety Research, 2017, 62, 155-161.	1.7	17
71	Analysis of the Impact of Fog-Related Reduced Visibility on Traffic Parameters. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	0.8	17
72	Integrated Modeling Approach for Non-Motorized Mode Trips and Fatal Crashes in the Framework of Transportation Safety Planning. Transportation Research Record, 2018, 2672, 49-60.	1.0	17

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73	Media Influence, Trust, and the Public Adoption of Automated Vehicles. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 174-187.	2.6	17
74	Safety effects of work zone advisory systems under the intelligent connected vehicle environment: a microsimulation approach. Journal of Intelligent and Connected Vehicles, 2021, 4, 16-27.	3.6	17
75	Spatial analysis of the effective coverage of land-based weather stations for traffic crashes. Applied Geography, 2018, 90, 17-27.	1.7	16
76	Interactive effects between travel behaviour and COVID-19: a questionnaire study. Transportation Safety and Environment, 2021, 3, 166-177.	1.1	16
77	Long-Term Effect of Universal Helmet Law Changes on Motorcyclist Fatal Crashes: Comparison Group and Empirical Bayes Approaches. Transportation Research Record, 2017, 2637, 27-37.	1.0	15
78	Factors Affecting Injury Severity of Crashes in Freeway Tunnel Groups: A Random Parameter Approach. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	0.8	15
79	Understanding driversâ€™ awareness, habits and intentions inside road tunnels for effective safety policies. Accident Analysis and Prevention, 2022, 172, 106690.	3.0	15
80	Analysis of Fatal Traffic Crash-Reporting and Reporting-Arrival Time Intervals of Emergency Medical Services. Transportation Research Record, 2018, 2672, 61-71.	1.0	14
81	International transferability of macro-level safety performance functions: a case study of the United States and Italy. Transportation Safety and Environment, 2019, 1, 68-78.	1.1	14
82	Transferability of safety performance functions and hotspot identification for freeways of the United States and China. Accident Analysis and Prevention, 2020, 139, 105493.	3.0	14
83	Crash analysis of expressway long tunnels using a seven-zone analytic approach. Journal of Transportation Safety and Security, 2021, 13, 108-122.	1.1	14
84	Impacts of variable message signs on en-route route choice behavior. Transportation Research, Part A: Policy and Practice, 2020, 139, 335-349.	2.0	12
85	A zonal level safety investigation of pedestrian crashes in Riyadh, Saudi Arabia. International Journal of Sustainable Transportation, 2019, 13, 255-267.	2.1	11
86	Comprehensive evaluation of signal-coordinated arterials on traffic safety. Analytic Methods in Accident Research, 2019, 21, 32-43.	4.7	11
87	Safety Evaluation of Median U-Turn Crossover-Based Intersections. Transportation Research Record, 2020, 2674, 206-218.	1.0	10
88	Evaluation of displaced left-turn intersections. Transportation Engineering, 2020, 1, 100006.	2.3	10
89	Proactive crash risk prediction modeling for merging assistance system at interchange merging areas. Traffic Injury Prevention, 2020, 21, 234-240.	0.6	10
90	Examination of the Transferability of Safety Performance Functions for Developing Crash Modification Factors: Using the Empirical Bayes Method. Transportation Research Record, 2016, 2583, 73-80.	1.0	9

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91	Safety Analysis of Access Zone Design for Managed Toll Lanes on Freeways. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	0.8	9
92	Investigating the Effects of Pavement Roughness on Freeway Safety using Data from Five States. Transportation Research Record, 2020, 2674, 127-134.	1.0	9
93	Exploring the Effect of Different Neighboring Structures on Spatial Hierarchical Joint Crash Frequency Models. Transportation Research Record, 2018, 2672, 210-222.	1.0	8
94	School zone safety modeling in countermeasure evaluation and decision. Transportmetrica A: Transport Science, 2019, 15, 586-601.	1.3	8
95	Enhancing Construction Truck Safety at Work Zones: A Microscopic Traffic Simulation Study. IEEE Access, 2021, 9, 49750-49759.	2.6	8
96	Intention of Risk-Taking Behavior at Unsignalized Intersections Under the Connected Vehicle Environment. IEEE Access, 2021, 9, 50624-50638.	2.6	8
97	Road safety under the environment of intelligent connected vehicles. Accident Analysis and Prevention, 2022, 170, 106645.	3.0	8
98	Effects of Signalization at Rural Intersections Considering the Elderly Driving Population. Transportation Research Record, 2019, 2673, 743-757.	1.0	7
99	Effects of Highway Landscapes on Driversâ€™ Eye Movement Behavior and Emergency Reaction Time: A Driving Simulator Study. Journal of Advanced Transportation, 2019, 2019, 1-9.	0.9	7
100	Systemic approach to improve safety of urban unsignalized intersections: Development and validation of a Safety Index. Accident Analysis and Prevention, 2020, 141, 105523.	3.0	7
101	Travel route safety estimation based on conflict simulation. Accident Analysis and Prevention, 2022, 171, 106666.	3.0	7
102	Short-Term Traffic Flow Prediction of Expressway Considering Spatial Influences. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	0.8	7
103	What Factors Would Make Single-Vehicle Motorcycle Crashes Fatal? Empirical Evidence from Pakistan. International Journal of Environmental Research and Public Health, 2022, 19, 5813.	1.2	7
104	Identification of contributing factors for interchange crashes based on a quasi-induced exposure method. Journal of Transportation Safety and Security, 2020, , 1-22.	1.1	6
105	Investigation of Safety-in-Numbers for Pedestrians and Bicyclists at a Macroscopic Level with Various Exposure Variables. Transportation Research Record, 2020, 2674, 568-580.	1.0	6
106	Use of Bivariate Random-Parameter Probit Model to Analyze the Injury Severity of Highway Traffic Crashes Involving School-Age Children. Transportation Research Record, 2021, 2675, 530-537.	1.0	6
107	Shaping inclusiveness of a transportation system: Factors affecting seat-yielding behavior of university students in public transportation. Transportation Research, Part A: Policy and Practice, 2022, 155, 79-94.	2.0	5
108	Integrated Safety and Operational Analysis of the Access Design of Managed Toll Lanes. Transportation Research Record, 2019, 2673, 127-136.	1.0	4

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109	How has the injury severity by gender changed after using female dummy in vehicle testing? Evidence from Florida's crash data. Journal of Transport and Health, 2021, 21, 101073.	1.1	4
110	Investigating the Affecting Factors of Speed Dispersion for Suburban Arterial Highways in Nanjing, China. Journal of Advanced Transportation, 2019, 2019, 1-11.	0.9	3
111	Driving angle prediction of lane changes based on extremely randomized decision trees considering the harmonic potential field method. Transportmetrica A: Transport Science, 2022, 18, 1601-1625.	1.3	3
112	Distribution Analysis and Forecast of Traffic Flow of an Expressway Electronic Toll Collection Lane. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	0.8	3
113	Perception of people from educational institution regarding autonomous vehicles. Transportation Research Interdisciplinary Perspectives, 2022, 14, 100620.	1.6	3
114	Evaluation of Safety Performance Functions Based on Experimental Design Using a Cross-Validation Method. Transportation Research Record, 2017, 2636, 62-72.	1.0	2
115	Bivariate Ordered Modeling of Crash Injury Severity Level of Drivers and School-Age Passengers. , 2019, , .		2
116	Safety Implications of Converting Continuous Green T-Intersections Back to Conventional T-Intersections. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	2
117	Investigation of Contributing Factors to Traffic Crashes and Violations: A Random Parameter Multinomial Logit Approach. Journal of Advanced Transportation, 2021, 2021, 1-11.	0.9	2
118	Association between Truck Crashes due to Mechanical Failure and Truck Age. Journal of Advanced Transportation, 2021, 2021, 1-7.	0.9	1
119	Long-term safety evaluation of the primary seat-belt law. Journal of Transportation Safety and Security, 0, , 1-21.	1.1	1
120	Relationship between Vehicle Safety Ratings and Driversâ€™ Injury Severity in the Context of Gender Disparity. International Journal of Environmental Research and Public Health, 2022, 19, 5885.	1.2	1
121	Estimating Groundwater Seepages to St. Lucie Estuary. , 2009, , .		0
122	Macroscopic Safety Analysis. , 2021, , 367-379.		0
123	Safety Effects of Connected and Automated Vehicle-Based Variable Speed Limit Control near Freeway Bottlenecks considering Driverâ€™s Heterogeneity. Journal of Advanced Transportation, 2022, 2022, 1-16.	0.9	0
124	Effectiveness and Optimal Location of Real-Time Traffic Conflict Risk Warning System for Rural Unsignalized Intersections: A Driving Simulation Study. Journal of Advanced Transportation, 2022, 2022, 1-11.	0.9	0