Lai Zheng

List of Publications by Year
in descending order

25 papers	868 citations	516710 16 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	310 citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Crash-Risk Optimization at Signalized Intersections. Transportation Research Record, 2022, 2676, 32-50.	1.9	8
2	Investigating conflict behaviours and characteristics in shared space for pedestrians, conventional bicycles and e-bikes. Accident Analysis and Prevention, 2021, 158, 106167.	5.7	28
3	Validating the Bayesian hierarchical extreme value model for traffic conflict-based crash estimation on freeway segments with site-level factors. Accident Analysis and Prevention, 2021, 159, 106269.	5.7	16
4	Investigating the transferability of Bayesian hierarchical extreme value model for traffic conflict-based crash estimation. Canadian Journal of Civil Engineering, 2021, 48, 1071-1080.	1.3	5
5	Multi-type Bayesian hierarchical modeling of traffic conflict extremes for crash estimation. Accident Analysis and Prevention, 2021, 160, 106309.	5.7	36
6	Investigating consecutive conflicts of pedestrian crossing at unsignalized crosswalks using the bivariate logistic approach. Accident Analysis and Prevention, 2021, 162, 106402.	5.7	8
7	Investigating factors that influence pedestrian and cyclist violations on shared use path: An observational study on the Brooklyn bridge promenade. International Journal of Sustainable Transportation, 2020, 14, 503-512.	4.1	13
8	Comparison of modelling methods accounting for temporal correlation in crash counts. Journal of Transportation Safety and Security, 2020, 12, 245-262.	1.6	4
9	Assessing the explanatory and predictive performance of a random parameters count model with heterogeneity in means and variances. Accident Analysis and Prevention, 2020, 147, 105759.	5.7	27
10	A hierarchical bayesian peak over threshold approach for conflict-based before-after safety evaluation of leading pedestrian intervals. Accident Analysis and Prevention, 2020, 147, 105772.	5.7	43
11	Using PET-Measured Traffic Conflicts to Analyze Safety Performance of Merging Areas of Freeways. , 2020, , .		1
12	A novel approach for real time crash prediction at signalized intersections. Transportation Research Part C: Emerging Technologies, 2020, 117, 102683.	7.6	55
13	A bivariate Bayesian hierarchical extreme value model for traffic conflict-based crash estimation. Analytic Methods in Accident Research, 2020, 25, 100111.	8.2	27
14	A comparison of collision-based and conflict-based safety evaluation of left-turn bay extension. Transportmetrica A: Transport Science, 2020, 16, 676-694.	2.0	21
15	A full Bayes approach for traffic conflict-based before–after safety evaluation using extreme value theory. Accident Analysis and Prevention, 2019, 131, 308-315.	5.7	34
16	Bayesian hierarchical modeling of the non-stationary traffic conflict extremes for crash estimation. Analytic Methods in Accident Research, 2019, 23, 100100.	8.2	38
17	Comparison of Traffic Conflict Indicators for Crash Estimation using Peak Over Threshold Approach. Transportation Research Record, 2019, 2673, 493-502.	1.9	63
18	Application of Extreme Value Theory for Before-After Road Safety Analysis. Transportation Research Record, 2019, 2673, 1001-1010.	1.9	40

#	Article	IF	Citations
19	Do Simulated Traffic Conflicts Predict Crashes? An Investigation Using the Extreme Value Approach*. , 2019, , .		7
20	Validating the bivariate extreme value modeling approach for road safety estimation with different traffic conflict indicators. Accident Analysis and Prevention, 2019, 123, 314-323.	5.7	96
21	Before-after safety analysis using extreme value theory: A case of left-turn bay extension. Accident Analysis and Prevention, 2018, 121, 258-267.	5.7	53
22	Bivariate extreme value modeling for road safety estimation. Accident Analysis and Prevention, 2018, 120, 83-91.	5.7	65
23	A generalized exponential link function to map a conflict indicator into severity index within safety continuum framework. Accident Analysis and Prevention, 2017, 102, 23-30.	5.7	27
24	Evaluation of Peak Over Threshold Approach for Road Safety Estimation. Journal of Transportation Safety and Security, 2015, 7, 76-90.	1.6	12
25	Freeway safety estimation using extreme value theory approaches: A comparative study. Accident Analysis and Prevention, 2014, 62, 32-41.	5.7	141