

# Xin Pei

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

799  
citations

687363

13  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

729  
citing authors

#	ARTICLE	IF	CITATIONS
1	The roles of exposure and speed in road safety analysis. <i>Accident Analysis and Prevention</i> , 2012, 48, 464-471.	5.7	106
2	A multivariate random-parameters Tobit model for analyzing highway crash rates by injury severity. <i>Accident Analysis and Prevention</i> , 2017, 99, 184-191.	5.7	98
3	Modeling nonlinear relationship between crash frequency by severity and contributing factors by neural networks. <i>Analytic Methods in Accident Research</i> , 2016, 10, 12-25.	8.2	82
4	A joint-probability approach to crash prediction models. <i>Accident Analysis and Prevention</i> , 2011, 43, 1160-1166.	5.7	77
5	Jointly modeling area-level crash rates by severity: a Bayesian multivariate random-parameters spatio-temporal Tobit regression. <i>Transportmetrica A: Transport Science</i> , 2019, 15, 1867-1884.	2.0	71
6	The effect of road network patterns on pedestrian safety: A zone-based Bayesian spatial modeling approach. <i>Accident Analysis and Prevention</i> , 2017, 99, 114-124.	5.7	61
7	Rule extraction from an optimized neural network for traffic crash frequency modeling. <i>Accident Analysis and Prevention</i> , 2016, 97, 87-95.	5.7	53
8	Incorporating temporal correlation into a multivariate random parameters Tobit model for modeling crash rate by injury severity. <i>Transportmetrica A: Transport Science</i> , 2018, 14, 177-191.	2.0	53
9	Spatial joint analysis for zonal daytime and nighttime crash frequencies using a Bayesian bivariate conditional autoregressive model. <i>Journal of Transportation Safety and Security</i> , 2020, 12, 566-585.	1.6	47
10	Predicting crash frequency using an optimised radial basis function neural network model. <i>Transportmetrica A: Transport Science</i> , 2016, 12, 330-345.	2.0	33
11	Bootstrap resampling approach to disaggregate analysis of road crashes in Hong Kong. <i>Accident Analysis and Prevention</i> , 2016, 95, 512-520.	5.7	33
12	Role of road network features in the evaluation of incident impacts on urban traffic mobility. <i>Transportation Research Part B: Methodological</i> , 2018, 117, 101-116.	5.9	22
13	A Heckman selection model for the safety analysis of signalized intersections. <i>PLoS ONE</i> , 2017, 12, e0181544.	2.5	19
14	Gas dynamic analogous exposure approach to interaction intensity in multiple-vehicle crash analysis: Case study of crashes involving taxis. <i>Analytic Methods in Accident Research</i> , 2017, 16, 90-103.	8.2	14
15	Full Bayesian Method for the Development of Speed Models: Applications of GPS Probe Data. <i>Journal of Transportation Engineering</i> , 2012, 138, 1188-1195.	0.9	11
16	Uncertainty matters: Bayesian modeling of bicycle crashes with incomplete exposure data. <i>Accident Analysis and Prevention</i> , 2022, 165, 106518.	5.7	9
17	Role of street patterns in zone-based traffic safety analysis. <i>Journal of Central South University</i> , 2015, 22, 2416-2422.	3.0	7
18	Bayesian multivariate spatial modeling for crash frequencies by injury severity at daytime and nighttime in traffic analysis zones. <i>Transportation Letters</i> , 2023, 15, 553-560.	3.1	2

#	ARTICLE	IF	CITATIONS
19	Disaggregated Crash Prediction Models for Different Crash Types using Joint Probability Model. , 2013, , .		1
20	Verification and Employment of Crowd-Sourcing Data in Road Safety Assessment. , 2020, , .		0