Xiaoduan Sun

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1092285/publications.pdf

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30 papers	690 citations	687363 13 h-index	580821 25 g-index
30 all docs	30 docs citations	30 times ranked	470 citing authors

#	Article	IF	Citations
1	Pedestrian crash analysis with latent class clustering method. Accident Analysis and Prevention, 2019, 124, 50-57.	5.7	93
2	Association knowledge for fatal run-off-road crashes by Multiple Correspondence Analysis. IATSS Research, 2016, 39, 146-155.	3.4	77
3	Investigation on the wrong way driving crash patterns using multiple correspondence analysis. Accident Analysis and Prevention, 2018, 111, 43-55.	5.7	68
4	Factor Association with Multiple Correspondence Analysis in Vehicleâ€“Pedestrian Crashes. Transportation Research Record, 2015, 2519, 95-103.	1.9	57
5	Supervised association rules mining on pedestrian crashes in urban areas: identifying patterns for appropriate countermeasures. International Journal of Urban Sciences, 2019, 23, 30-48.	2.8	57
6	Text Mining and Topic Modeling of Compendiums of Papers from Transportation Research Board Annual Meetings. Transportation Research Record, 2016, 2552, 48-56.	1.9	41
7	Trends in Transportation Research. Transportation Research Record, 2017, 2614, 27-38.	1.9	36
8	Patterns of rainy weather crashes: Applying rules mining. Journal of Transportation Safety and Security, 2020, 12, 1083-1105.	1.6	26
9	Quantifying Crash Risk under Inclement Weather with Radar Rainfall Data and Matched-Pair Method. Journal of Transportation Safety and Security, 2011, 3, 1-14.	1.6	22
10	Elderly Pedestrian Fatal Crash-Related Contributing Factors: Applying Empirical Bayes Geometric Mean Method. Transportation Research Record, 2019, 2673, 254-263.	1.9	18
11	Investigating fatal and injury crash patterns of teen drivers with unsupervised learning algorithms. IATSS Research, 2021, 45, 561-573.	3.4	18
12	Investigating characteristics of cellphone distraction with significance tests and association rule mining. IATSS Research, 2021, 45, 198-209.	3.4	16
13	Investigating User Ridership Sentiments for Bike Sharing Programs. Journal of Transportation Technologies, 2015, 05, 69-75.	0.5	16
14	Understanding the contributing factors to young driver crashes: A comparison of crash profiles of three age groups. Transportation Engineering, 2021, 5, 100076.	4.2	15
15	Exploring the influential factors of roadway departure crashes on rural two-lane highways with logit model and association rules mining. International Journal of Transportation Science and Technology, 2021, 10, 167-183.	3.6	14
16	Investigating Underage Alcohol-Intoxicated Driver Crash Patterns in Louisiana. Transportation Research Record, 2021, 2675, 769-782.	1.9	13
17	Hit and run crashes: Knowledge extraction from bicycle involved crashes using first and frugal tree. International Journal of Transportation Science and Technology, 2019, 8, 146-160.	3.6	12
18	Measuring the Effectiveness of Vehicle Inspection Regulations in Different States of the U.S.. Transportation Research Record, 2019, 2673, 208-219.	1.9	12

#	Article	IF	Citations
19	Applying Association Rules Mining to Investigate Pedestrian Fatal and Injury Crash Patterns Under Different Lighting Conditions. Transportation Research Record, 2022, 2676, 659-672.	1.9	12
20	Investigating Safety Impact of Edgelines on Narrow, Rural Two-Lane Highways by Empirical Bayes Method. Transportation Research Record, 2014, 2433, 121-128.	1.9	11
21	Flooding related traffic crashes: findings from association rules. Journal of Transportation Safety and Security, 2022, 14, 111-129.	1.6	10
22	Identifying Patterns of Key Factors in Sun Glare-Related Traffic Crashes. Transportation Research Record, 2022, 2676, 165-175.	1.9	8
23	Understanding patterns of moped and seated motor scooter (50 cc or less) involved fatal crashes using cluster correspondence analysis. Transportmetrica A: Transport Science, 2023, 19, .	2.0	7
24	Young drivers and cellphoneÂdistraction: Pattern recognition from fatal crashes. Journal of Transportation Safety and Security, 2023, 15, 239-264.	1.6	7
25	Using Cluster Correspondence Analysis to Explore Rainy Weather Crashes in Louisiana. Transportation Research Record, 2022, 2676, 159-173.	1.9	6
26	Four-Lane to Five-Lane Urban Roadway Conversions for Safety. Journal of Transportation Safety and Security, 2013, 5, 106-117.	1.6	5
27	Rule-based safety prediction models for rural two-lane run-off-road crashes. International Journal of Transportation Science and Technology, 2021, 10, 235-244.	3.6	5
28	Severity Analysis of Hazardous Material Road Transportation Crashes with a Bayesian Network Using Highway Safety Information System Data. International Journal of Environmental Research and Public Health, 2022, 19, 4002.	2.6	5
29	Safety effectiveness of roadway conversion with a two way left turn lane. Journal of Traffic and Transportation Engineering (English Edition), 2018, 5, 309-317.	4.2	2
30	Reconfiguring Urban Undivided Four-Lane Highways to Five-Lane: A Nonideal but Very Effective Solution for Crash Reduction. Journal of Transportation Engineering Part A: Systems, 2020, 146, 04020116.	1.4	1