Mohamed A Abdel-Aty

List of Publications by Year
in descending order

360	18,004	8181	21540
papers	citations	76 h-index	114 g-index

360	360	360	5887
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling traffic accident occurrence and involvement. Accident Analysis and Prevention, 2000, 32, 633-642.	5.7	586
2	Comprehensive analysis of vehicleâ€“pedestrian crashes at intersections in Florida. Accident Analysis and Prevention, 2005, 37, 775-786.	5.7	436
3	Analysis of driver injury severity levels at multiple locations using ordered probit models. Journal of Safety Research, 2003, 34, 597-603.	3.6	427
4	Big Data applications in real-time traffic operation and safety monitoring and improvement on urban expressways. Transportation Research Part C: Emerging Technologies, 2015, 58, 380-394.	7.6	302
5	Predicting Freeway Crashes from Loop Detector Data by Matched Case-Control Logistic Regression. Transportation Research Record, 2004, 1897, 88-95.	1.9	271
6	Macroscopic spatial analysis of pedestrian and bicycle crashes. Accident Analysis and Prevention, 2012, 45, 382-391.	5.7	241
7	Using stated preference data for studying the effect of advanced traffic information on drivers' route choice. Transportation Research Part C: Emerging Technologies, 1997, 5, 39-50.	7.6	232
8	Utilizing support vector machine in real-time crash risk evaluation. Accident Analysis and Prevention, 2013, 51, 252-259.	5.7	230
9	Development of Artificial Neural Network Models to Predict Driver Injury Severity in Traffic Accidents at Signalized Intersections. Transportation Research Record, 2001, 1746, 6-13.	1.9	215
10	Multilevel data and Bayesian analysis in traffic safety. Accident Analysis and Prevention, 2010, 42, 1556-1565.	5.7	214
11	County-Level Crash Risk Analysis in Florida: Bayesian Spatial Modeling. Transportation Research Record, 2010, 2148, 27-37.	1.9	205
12	Evaluation of variable speed limits for real-time freeway safety improvement. Accident Analysis and Prevention, 2006, 38, 335-345.	5.7	202
13	Longitudinal safety evaluation of connected vehiclesâ€™ platooning on expressways. Accident Analysis and Prevention, 2018, 117, 381-391.	5.7	194
14	Real-time crash risk prediction on arterials based on LSTM-CNN. Accident Analysis and Prevention, 2020, 135, 105371.	5.7	192
15	Characteristics of rear-end accidents at signalized intersections using multiple logistic regression model. Accident Analysis and Prevention, 2005, 37, 983-995.	5.7	189
16	Modeling signalized intersection safety with corridor-level spatial correlations. Accident Analysis and Prevention, 2010, 42, 84-92.	5.7	187
17	Analysis of left-turn crash injury severity by conflicting pattern using partial proportional odds models. Accident Analysis and Prevention, 2008, 40, 1674-1682.	5.7	185
18	Temporal and spatial analyses of rear-end crashes at signalized intersections. Accident Analysis and Prevention, 2006, 38, 1137-1150.	5.7	183

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19	Assessment of freeway traffic parameters leading to lane-change related collisions. Accident Analysis and Prevention, 2006, 38, 936-948.	5.7	179
20	Validating a driving simulator using surrogate safety measures. Accident Analysis and Prevention, 2008, 40, 274-288.	5.7	172
21	A study on crashes related to visibility obstruction due to fog and smoke. Accident Analysis and Prevention, 2011, 43, 1730-1737.	5.7	171
22	Analyzing crash injury severity for a mountainous freeway incorporating real-time traffic and weather data. Safety Science, 2014, 63, 50-56.	4.9	171
23	Examining traffic crash injury severity at unsignalized intersections. Journal of Safety Research, 2010, 41, 347-357.	3.6	161
24	Identifying crash propensity using specific traffic speed conditions. Journal of Safety Research, 2005, 36, 97-108.	3.6	160
25	Exploring the overall and specific crash severity levels at signalized intersections. Accident Analysis and Prevention, 2005, 37, 417-425.	5.7	156
26	Exploring a Bayesian hierarchical approach for developing safety performance functions for a mountainous freeway. Accident Analysis and Prevention, 2011, 43, 1581-1589.	5.7	156
27	Multivariate crash modeling for motor vehicle and non-motorized modes at the macroscopic level. Accident Analysis and Prevention, 2015, 78, 146-154.	5.7	153
28	Macro-level pedestrian and bicycle crash analysis: Incorporating spatial spillover effects in dual state count models. Accident Analysis and Prevention, 2016, 93, 14-22.	5.7	149
29	Bayesian random effect models incorporating real-time weather and traffic data to investigate mountainous freeway hazardous factors. Accident Analysis and Prevention, 2013, 50, 371-376.	5.7	141
30	The Viability of Using Automatic Vehicle Identification Data for Real-Time Crash Prediction. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 459-468.	8.0	140
31	Big data, traditional data and the tradeoffs between prediction and causality in highway-safety analysis. Analytic Methods in Accident Research, 2020, 25, 100113.	8.2	136
32	Analysis of accident injury-severities using a correlated random parameters ordered probit approach with time variant covariates. Analytic Methods in Accident Research, 2018, 18, 57-68.	8.2	134
33	Calibrating a Real-Time Traffic Crash-Prediction Model Using Archived Weather and ITS Traffic Data. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 167-174.	8.0	130
34	Utilizing UAV video data for in-depth analysis of driversâ€™ crash risk at interchange merging areas. Accident Analysis and Prevention, 2019, 123, 159-169.	5.7	123
35	Motor vehicleâ€“bicycle crashes in Beijing: Irregular maneuvers, crash patterns, and injury severity. Accident Analysis and Prevention, 2011, 43, 1751-1758.	5.7	121
36	Presence of passengers: Does it increase or reduce driver's crash potential?. Accident Analysis and Prevention, 2008, 40, 1703-1712.	5.7	115

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37	Market basket analysis of crash data from large jurisdictions and its potential as a decision support tool. Safety Science, 2009, 47, 145-154.	4.9	114
38	A correlated random parameter approach to investigate the effects of weather conditions on crash risk for a mountainous freeway. Transportation Research Part C: Emerging Technologies, 2015, 50, 68-77.	7.6	114
39	Real-Time Crash Risk Prediction using Long Short-Term Memory Recurrent Neural Network. Transportation Research Record, 2019, 2673, 314-326.	1.9	113
40	Predicting Injury Severity Levels in Traffic Crashes: A Modeling Comparison. Journal of Transportation Engineering, 2004, 130, 204-210.	0.9	110
41	Real-time crash prediction for expressway weaving segments. Transportation Research Part C: Emerging Technologies, 2015, 61, 1-10.	7.6	106
42	An optimal variable speed limits system to ameliorate traffic safety risk. Transportation Research Part C: Emerging Technologies, 2014, 46, 235-246.	7.6	105
43	Freeway Work-Zone Crash Analysis and Risk Identification Using Multiple and Conditional Logistic Regression. Journal of Transportation Engineering, 2008, 134, 203-214.	0.9	104
44	Real-time prediction of visibility related crashes. Transportation Research Part C: Emerging Technologies, 2012, 24, 288-298.	7.6	104
45	Geographical unit based analysis in the context of transportation safety planning. Transportation Research, Part A: Policy and Practice, 2013, 49, 62-75.	4.2	102
46	Using hierarchical Bayesian binary probit models to analyze crash injury severity on high speed facilities with real-time traffic data. Accident Analysis and Prevention, 2014, 62, 161-167.	5.7	102
47	Multi-level Bayesian analyses for single- and multi-vehicle freeway crashes. Accident Analysis and Prevention, 2013, 58, 97-105.	5.7	100
48	Macro and micro models for zonal crash prediction with application in hot zones identification. Journal of Transport Geography, 2016, 54, 248-256.	5.0	100
49	Crash risk analysis during fog conditions using real-time traffic data. Accident Analysis and Prevention, 2018, 114, 4-11.	5.7	100
50	Split Models for Predicting Multivehicle Crashes During High-Speed and Low-Speed Operating Conditions on Freeways. Transportation Research Record, 2005, 1908, 51-58.	1.9	100
51	Assessment of the safety benefits of vehiclesâ€™ advanced driver assistance, connectivity and low level automation systems. Accident Analysis and Prevention, 2018, 117, 55-64.	5.7	99
52	Multi-level hot zone identification for pedestrian safety. Accident Analysis and Prevention, 2015, 76, 64-73.	5.7	98
53	Assessment of Interaction of Crash Occurrence, Mountainous Freeway Geometry, Real-Time Weather, and Traffic Data. Transportation Research Record, 2012, 2280, 51-59.	1.9	97
54	Integrating Trip and Roadway Characteristics to Manage Safety in Traffic Analysis Zones. Transportation Research Record, 2011, 2213, 20-28.	1.9	96

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55	Development of zone system for macro-level traffic safety analysis. Journal of Transport Geography, 2014, 38, 13-21.	5.0	95
56	A Bayesian spatial random parameters Tobit model for analyzing crash rates on roadway segments. Accident Analysis and Prevention, 2017, 100, 37-43.	5.7	95
57	Real-time crash prediction models: State-of-the-art, design pathways and ubiquitous requirements. Accident Analysis and Prevention, 2019, 124, 66-84.	5.7	95
58	Predicting real-time traffic conflicts using deep learning. Accident Analysis and Prevention, 2020, 136, 105429.	5.7	94
59	Safety of Public Transportation Occupational Drivers: Risk Perception, Attitudes, and Driving Behavior. Transportation Research Record, 2010, 2145, 72-79.	1.9	92
60	Safety benefits of arterialsâ€™ crash risk under connected and automated vehicles. Transportation Research Part C: Emerging Technologies, 2019, 100, 354-371.	7.6	92
61	Real-time crash prediction on expressways using deep generative models. Transportation Research Part C: Emerging Technologies, 2020, 117, 102697.	7.6	92
62	Analyzing angle crashes at unsignalized intersections using machine learning techniques. Accident Analysis and Prevention, 2011, 43, 461-470.	5.7	89
63	Macroscopic hotspots identification: A Bayesian spatio-temporal interaction approach. Accident Analysis and Prevention, 2016, 92, 256-264.	5.7	88
64	Approach-level real-time crash risk analysis for signalized intersections. Accident Analysis and Prevention, 2018, 119, 274-289.	5.7	88
65	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.	7.6	87
66	How many crashes can connected vehicle and automated vehicle technologies prevent: A meta-analysis. Accident Analysis and Prevention, 2020, 136, 105299.	5.7	87
67	Intersection crash prediction modeling with macro-level data from various geographic units. Accident Analysis and Prevention, 2017, 102, 213-226.	5.7	86
68	Crash data augmentation using variational autoencoder. Accident Analysis and Prevention, 2021, 151, 105950.	5.7	86
69	Modeling rear-end collisions including the role of driverâ€™s visibility and light truck vehicles using a nested logit structure. Accident Analysis and Prevention, 2004, 36, 447-456.	5.7	84
70	Using conditional inference forests to identify the factors affecting crash severity on arterial corridors. Journal of Safety Research, 2009, 40, 317-327.	3.6	84
71	Effects of Pavement Surface Conditions on Traffic Crash Severity. Journal of Transportation Engineering, 2015, 141, .	0.9	84
72	Bayesian Updating Approach for Real-Time Safety Evaluation with Automatic Vehicle Identification Data. Transportation Research Record, 2012, 2280, 60-67.	1.9	83

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73	Analysis of driversâ€™ behavior under reduced visibility conditions using a Structural Equation Modeling approach. Transportation Research Part F: Traffic Psychology and Behaviour, 2011, 14, 614-625.	3.7	82
74	Effects of crash warning systems on rear-end crash avoidance behavior under fog conditions. Transportation Research Part C: Emerging Technologies, 2018, 95, 481-492.	7.6	82
75	Artificial Neural Networks and Logit Models for Traffic Safety Analysis of Toll Plazas. Transportation Research Record, 2002, 1784, 115-125.	1.9	81
76	A data fusion framework for real-time risk assessment on freeways. Transportation Research Part C: Emerging Technologies, 2013, 26, 203-213.	7.6	81
77	Crash Risk Assessment Using Intelligent Transportation Systems Data and Real-Time Intervention Strategies to Improve Safety on Freeways. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2007, 11, 107-120.	4.2	78
78	Sensitivity analysis in the context of regional safety modeling: Identifying and assessing the modifiable areal unit problem. Accident Analysis and Prevention, 2014, 70, 110-120.	5.7	78
79	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.	5.7	75
80	Assessing the impact of reduced visibility on traffic crash risk using microscopic data and surrogate safety measures. Transportation Research Part C: Emerging Technologies, 2017, 74, 295-305.	7.6	73
81	Geo-spatial and log-linear analysis of pedestrian and bicyclist crashes involving school-aged children. Journal of Safety Research, 2007, 38, 571-579.	3.6	72
82	Predicting reduced visibility related crashes on freeways using real-time traffic flow data. Journal of Safety Research, 2013, 45, 29-36.	3.6	71
83	A hazard-based duration model for analyzing crossing behavior of cyclists and electric bike riders at signalized intersections. Accident Analysis and Prevention, 2015, 74, 33-41.	5.7	68
84	Comparative analysis of zonal systems for macro-level crash modeling. Journal of Safety Research, 2017, 61, 157-166.	3.6	68
85	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.	5.7	66
86	Modeling left-turn crash occurrence at signalized intersections by conflicting patterns. Accident Analysis and Prevention, 2008, 40, 76-88.	5.7	65
87	Dynamic Variable Speed Limit Strategies for Real-Time Crash Risk Reduction on Freeways. Transportation Research Record, 2008, 2078, 108-116.	1.9	65
88	A Bayesian ridge regression analysis of congestion's impact on urban expressway safety. Accident Analysis and Prevention, 2016, 88, 124-137.	5.7	64
89	Examining traffic conflicts of up stream toll plaza area using vehiclesâ€™ trajectory data. Accident Analysis and Prevention, 2019, 125, 174-187.	5.7	64
90	Aggregate nonparametric safety analysis of traffic zones. Accident Analysis and Prevention, 2012, 45, 317-325.	5.7	62

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91	Split Models for Predicting Multivehicle Crashes during High-Speed and Low-Speed Operating Conditions on Freeways. Transportation Research Record, 2005, 1908, 51-58.	1.9	61
92	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.	8.2	61
93	Modeling drivers' diversion from normal routes under ATIS using generalized estimating equations and binomial probit link function. Transportation, 2004, 31, 327-348.	4.0	60
94	Detecting periodic patterns of arrival delay. Journal of Air Transport Management, 2007, 13, 355-361.	4.5	60
95	Assessing Safety on Dutch Freeways with Data from Infrastructure-Based Intelligent Transportation Systems. Transportation Research Record, 2008, 2083, 153-161.	1.9	60
96	Estimation of Real-Time Crash Risk. Transportation Research Record, 2011, 2237, 60-66.	1.9	60
97	Investigating the different characteristics of weekday and weekend crashes. Journal of Safety Research, 2013, 46, 91-97.	3.6	60
98	Real-time assessment of fog-related crashes using airport weather data: A feasibility analysis. Accident Analysis and Prevention, 2014, 72, 309-317.	5.7	60
99	Exploring the relationship between alcohol and the driver characteristics in motor vehicle accidents. Accident Analysis and Prevention, 2000, 32, 473-482.	5.7	59
100	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.	5.7	59
101	Testing Effects of Warning Messages and Variable Speed Limits on Driver Behavior Using Driving Simulator. Transportation Research Record, 2008, 2069, 55-64.	1.9	58
102	Indexing crash worthiness and crash aggressivity by vehicle type. Accident Analysis and Prevention, 2011, 43, 1364-1370.	5.7	58
103	Exploring the safety implications of young driversâ€™ behavior, attitudes and perceptions. Accident Analysis and Prevention, 2013, 50, 361-370.	5.7	58
104	Analysis of residence characteristics of at-fault drivers in traffic crashes. Safety Science, 2014, 68, 6-13.	4.9	58
105	Crash Estimation at Signalized Intersections along Corridors. Transportation Research Record, 2006, 1953, 98-111.	1.9	57
106	Joint Modeling of Pedestrian and Bicycle Crashes: Copula-Based Approach. Transportation Research Record, 2016, 2601, 119-127.	1.9	57
107	Crash risk analysis for Shanghai urban expressways: A Bayesian semi-parametric modeling approach. Accident Analysis and Prevention, 2016, 95, 495-502.	5.7	53
108	Assessing rear-end crash potential in urban locations based on vehicle-by-vehicle interactions, geometric characteristics and operational conditions. Accident Analysis and Prevention, 2018, 118, 221-235.	5.7	51

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109	Crash data analysis: Collective vs. individual crash level approach. Journal of Safety Research, 2007, 38, 581-587.	3.6	50
110	Predicting Crashes on Expressway Ramps with Real-Time Traffic and Weather Data. Transportation Research Record, 2015, 2514, 32-38.	1.9	49
111	Development of crash modification factors for changing lane width on roadway segments using generalized nonlinear models. Accident Analysis and Prevention, 2015, 76, 83-91.	5.7	49
112	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.	3.7	48
113	Prediction of Pedestrian Crossing Intentions at Intersections Based on Long Short-Term Memory Recurrent Neural Network. Transportation Research Record, 2020, 2674, 57-65.	1.9	48
114	Investigating different approaches to develop informative priors in hierarchical Bayesian safety performance functions. Accident Analysis and Prevention, 2013, 56, 51-58.	5.7	47
115	Investigating macro-level hotzone identification and variable importance using big data: A random forest models approach. Neurocomputing, 2016, 181, 53-63.	5.9	47
116	Macro-level vulnerable road users crash analysis: A Bayesian joint modeling approach of frequency and proportion. Accident Analysis and Prevention, 2017, 107, 11-19.	5.7	47
117	Examination of Multiple Mode/Route-Choice Paradigms Under ATIS. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 332-348.	8.0	46
118	Evaluation of surrogate measures for pedestrian trips at intersections and crash modeling. Accident Analysis and Prevention, 2019, 130, 91-98.	5.7	46
119	Analyzing traffic violation behavior at urban intersections: A spatio-temporal kernel density estimation approach using automated enforcement system data. Accident Analysis and Prevention, 2020, 141, 105509.	5.7	46
120	Linking Roadway Geometrics and Real-Time Traffic Characteristics to Model Daytime Freeway Crashes: Generalized Estimating Equations for Correlated Data. Transportation Research Record, 2004, 1897, 106-115.	1.9	45
121	Investigation of road network features and safety performance. Accident Analysis and Prevention, 2013, 56, 22-31.	5.7	45
122	Safety analytics for integrating crash frequency and real-time risk modeling for expressways. Accident Analysis and Prevention, 2017, 104, 58-64.	5.7	45
123	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.	5.7	45
124	Exploring the transferability of safety performance functions. Accident Analysis and Prevention, 2016, 94, 143-152.	5.7	44
125	Understanding the Highway Safety Benefits of Different Approaches of Connected Vehicles in Reduced Visibility Conditions. Transportation Research Record, 2018, 2672, 91-101.	1.9	44
126	Investigation of Safety Influence Area for Four-Legged Signalized Intersections. Transportation Research Record, 2008, 2083, 86-95.	1.9	43

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127	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.	8.2	43
128	Modeling pedestriansâ€™ near-accident events at signalized intersections using gated recurrent unit (GRU). Accident Analysis and Prevention, 2020, 148, 105844.	5.7	43
129	An accelerated failure time model for investigating pedestrian crossing behavior and waiting times at signalized intersections. Accident Analysis and Prevention, 2015, 82, 154-162.	5.7	42
130	Assessing the safety effects of multiple roadside treatments using parametric and nonparametric approaches. Accident Analysis and Prevention, 2015, 83, 203-213.	5.7	42
131	Comprehensive Analysis of the Relationship between Real-Time Traffic Surveillance Data and Rear-End Crashes on Freeways. Transportation Research Record, 2006, 1953, 31-40.	1.9	41
132	Design and verification of a laser based device for pavement macrotexture measurement. Transportation Research Part C: Emerging Technologies, 2011, 19, 682-694.	7.6	41
133	Macrolevel Model Development for Safety Assessment of Road Network Structures. Transportation Research Record, 2012, 2280, 100-109.	1.9	41
134	In-depth approach for identifying crash causation patterns and its implications for pedestrian crash prevention. Journal of Safety Research, 2020, 73, 119-132.	3.6	41
135	Comprehensive Analysis of the Relationship Between Real-Time Traffic Surveillance Data and Rear-End Crashes on Freeways. Transportation Research Record, 2006, 1953, 31-40.	1.9	41
136	Crash Estimation at Signalized Intersections Along Corridors: Analyzing Spatial Effect and Identifying Significant Factors. Transportation Research Record, 2006, 1953, 98-111.	1.9	41
137	Safety evaluation of multilane arterials in Florida. Accident Analysis and Prevention, 2009, 41, 777-788.	5.7	40
138	A combined frequencyâ€“severity approach for the analysis of rear-end crashes on urban arterials. Safety Science, 2011, 49, 1156-1163.	4.9	39
139	Exploration and comparison of crash modification factors for multiple treatments on rural multilane roadways. Accident Analysis and Prevention, 2014, 70, 167-177.	5.7	39
140	Effects of real-time warning systems on driving under fog conditions using an empirically supported speed choice modeling framework. Transportation Research Part C: Emerging Technologies, 2018, 86, 97-110.	7.6	39
141	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.	7.6	39
142	Effects of emergency medical services times on traffic injury severity: A random effects ordered probit approach. Traffic Injury Prevention, 2018, 19, 577-581.	1.4	38
143	Crash Estimation at Signalized Intersections: Significant Factors and Temporal Effect. Transportation Research Record, 2006, 1953, 10-20.	1.9	38
144	Considering various ALINEA ramp metering strategies for crash risk mitigation on freeways under congested regime. Transportation Research Part C: Emerging Technologies, 2007, 15, 113-134.	7.6	37

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145	Evaluation and spatial analysis of automated red-light running enforcement cameras. Transportation Research Part C: Emerging Technologies, 2015, 50, 130-140.	7.6	37
146	Combined connected vehicles and variable speed limit strategies to reduce rear-end crash risk under fog conditions. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2020, 24, 494-513.	4.2	37
147	Utilizing Microscopic Traffic and Weather Data to Analyze Real-Time Crash Patterns in the Context of Active Traffic Management. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 205-213.	8.0	36
148	A Hybrid Latent Class Analysis Modeling Approach to Analyze Urban Expressway Crash Risk. Accident Analysis and Prevention, 2017, 101, 37-43.	5.7	36
149	Quasi-vehicle-trajectory-based real-time safety analysis for expressways. Transportation Research Part C: Emerging Technologies, 2019, 103, 30-38.	7.6	36
150	A multi-vehicle communication system to assess the safety and mobility of connected and automated vehicles. Transportation Research Part C: Emerging Technologies, 2021, 124, 102887.	7.6	36
151	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.	7.6	35
152	Applying machine learning approaches to analyze the vulnerable road-users' crashes at statewide traffic analysis zones. Journal of Safety Research, 2019, 70, 275-288.	3.6	35
153	Analysis and prediction of traffic fatalities resulting from angle collisions including the effect of vehiclesâ€™ configuration and compatibility. Accident Analysis and Prevention, 2004, 36, 457-469.	5.7	34
154	A classification tree based modeling approach for segment related crashes on multilane highways. Journal of Safety Research, 2010, 41, 391-397.	3.6	34
155	Application of Poisson random effect models for highway network screening. Accident Analysis and Prevention, 2014, 63, 74-82.	5.7	34
156	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.	3.6	34
157	Decentralized network level adaptive signal control by multi-agent deep reinforcement learning. Transportation Research Interdisciplinary Perspectives, 2019, 1, 100020.	2.7	34
158	Using a reliability process to reduce uncertainty in predicting crashes at unsignalized intersections. Accident Analysis and Prevention, 2010, 42, 654-666.	5.7	33
159	Comparison of proposed countermeasures for dilemma zone at signalized intersections based on cellular automata simulations. Accident Analysis and Prevention, 2018, 116, 69-78.	5.7	33
160	Understanding the Impact of a Recent Hurricane on Mobilization Time during a Subsequent Hurricane. Transportation Research Record, 2008, 2041, 49-57.	1.9	32
161	Multi-Objective reinforcement learning approach for improving safety at intersections with adaptive traffic signal control. Accident Analysis and Prevention, 2020, 144, 105655.	5.7	32
162	Right-Angle Crash Occurrence at Signalized Intersections. Transportation Research Record, 2007, 2019, 156-168.	1.9	31

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163	A genetic programming approach to explore the crash severity on multi-lane roads. Accident Analysis and Prevention, 2010, 42, 548-557.	5.7	31
164	Implementation of Active Traffic Management Strategies for Safety on Congested Expressway Weaving Segments. Transportation Research Record, 2017, 2635, 28-35.	1.9	31
165	A novel approach for analyzing severe crash patterns on multilane highways. Accident Analysis and Prevention, 2009, 41, 985-994.	5.7	30
166	Transferability and Calibration of Highway Safety Manual Performance Functions and Development of New Models for Urban Four-Lane Divided Roads in Riyadh, Saudi Arabia. Transportation Research Record, 2015, 2515, 70-77.	1.9	30
167	Development of adjustment functions to assess combined safety effects of multiple treatments on rural two-lane roadways. Accident Analysis and Prevention, 2015, 75, 310-319.	5.7	30
168	Ordered Fractional Split Approach for Aggregate Injury Severity Modeling. Transportation Research Record, 2016, 2583, 119-126.	1.9	30
169	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.	4.2	30
170	Analysis of driving behavior at expressway toll plazas. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 61, 163-177.	3.7	30
171	Prediction of pedestrian-vehicle conflicts at signalized intersections based on long short-term memory neural network. Accident Analysis and Prevention, 2020, 148, 105799.	5.7	30
172	Analysis of Types of Crashes at Signalized Intersections by Using Complete Crash Data and Tree-Based Regression. Transportation Research Record, 2005, 1908, 37-45.	1.9	30
173	Safety Analysis of Urban Arterials under Mixed-Traffic Patterns in Beijing. Transportation Research Record, 2010, 2193, 105-115.	1.9	29
174	Safety assessment of the conversion of toll plazas to all-electronic toll collection system. Accident Analysis and Prevention, 2015, 80, 153-161.	5.7	29
175	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.	4.1	29
176	Integrating macro- and micro-level safety analyses: a Bayesian approach incorporating spatial interaction. Transportmetrica A: Transport Science, 2019, 15, 285-306.	2.0	29
177	Spatiotemporal Variation of Risk Preceding Crashes on Freeways. Transportation Research Record, 2005, 1908, 26-36.	1.9	29
178	Application of Stochastic Gradient Boosting Technique to Enhance Reliability of Real-Time Risk Assessment. Transportation Research Record, 2013, 2386, 26-34.	1.9	28
179	The Climate Change-Road Safety-Economy Nexus: A System Dynamics Approach to Understanding Complex Interdependencies. Systems, 2017, 5, 6.	2.3	28
180	Enhancing In-Vehicle Driving Assistance Information Under Connected Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3558-3567.	8.0	28

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181	Analysis of Types of Crashes at Signalized Intersections by Using Complete Crash Data and Tree-Based Regression. Transportation Research Record, 2005, 1908, 37-45.	1.9	27
182	Quality of traffic flow on urban arterial streets and its relationship with safety. Accident Analysis and Prevention, 2011, 43, 1610-1616.	5.7	27
183	Nature of Modeling Boundary Pedestrian Crashes at Zones. Transportation Research Record, 2012, 2299, 31-40.	1.9	27
184	Multi-level Bayesian safety analysis with unprocessed Automatic Vehicle Identification data for an urban expressway. Accident Analysis and Prevention, 2016, 88, 68-76.	5.7	27
185	The Practical Effectiveness of Advanced Driver Assistance Systems at Different Roadway Facilities: System Limitation, Adoption, and Usage. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3859-3870.	8.0	27
186	Using bus critical driving events as surrogate safety measures for pedestrian and bicycle crashes based on GPS trajectory data. Accident Analysis and Prevention, 2021, 150, 105924.	5.7	27
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