Tarek A Sayed

List of Publications by Year
in descending order

270	8,870	41344	79698
papers	citations	49	73
		h-index	g-index

271	271	271	3050
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Traffic conflict standards for intersections. Transportation Planning and Technology, 1999, 22, 309-323.	2.0	226
2	Collision prediction models using multivariate Poisson-lognormal regression. Accident Analysis and Prevention, 2009, 41, 820-828.	5.7	192
3	Accident prediction models with random corridor parameters. Accident Analysis and Prevention, 2009, 41, 1118-1123.	5.7	178
4	Safety performance functions using traffic conflicts. Safety Science, 2013, 51, 160-164.	4.9	174
5	Automated Analysis of Pedestrian–Vehicle Conflicts Using Video Data. Transportation Research Record, 2009, 2140, 44-54.	1.9	154
6	Automated safety diagnosis of vehicle–bicycle interactions using computer vision analysis. Safety Science, 2013, 59, 163-172.	4.9	150
7	Large-Scale Automated Analysis of Vehicle Interactions and Collisions. Transportation Research Record, 2010, 2147, 42-50.	1.9	137
8	Automated Analysis of Pedestrian–Vehicle Conflicts. Transportation Research Record, 2010, 2198, 52-64.	1.9	130
9	Safety evaluation of right-turn smart channels using automated traffic conflict analysis. Accident Analysis and Prevention, 2012, 45, 120-130.	5.7	118
10	Traffic conflict models to evaluate the safety of signalized intersections at the cycle level. Transportation Research Part C: Emerging Technologies, 2018, 89, 289-302.	7.6	109
11	Evaluating Safety of Urban Arterial Roadways. Journal of Transportation Engineering, 2001, 127, 151-158.	0.9	105
12	Macro-level collision prediction models for evaluating neighbourhood traffic safety. Canadian Journal of Civil Engineering, 2006, 33, 609-621.	1.3	105
13	A systematic mapping review of surrogate safety assessment using traffic conflict techniques. Accident Analysis and Prevention, 2021, 153, 106016.	5.7	105
14	Probabilistic Framework for Automated Analysis of Exposure to Road Collisions. Transportation Research Record, 2008, 2083, 96-104.	1.9	102
15	Automated Analysis of Road Safety with Video Data. Transportation Research Record, 2007, 2019, 57-64.	1.9	101
16	A cross-comparison of different techniques for modeling macro-level cyclist crashes. Accident Analysis and Prevention, 2018, 113, 38-46.	5.7	98
17	A feature-based tracking algorithm for vehicles in intersections. , 0, , .		97
18	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

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19	Simulation of traffic conflicts at unsignalized intersections with TSC-Sim. Accident Analysis and Prevention, 1994, 26, 593-607.	5.7	92
20	Urban Arterial Accident Prediction Models with Spatial Effects. Transportation Research Record, 2009, 2102, 27-33.	1.9	92
21	Modeling traffic conflicts for use in road safety analysis: A review of analytic methods and future directions. Analytic Methods in Accident Research, 2021, 29, 100142.	8.2	92
22	A comparison between simulated and field-measured conflicts for safety assessment of signalized intersections in Australia. Transportation Research Part C: Emerging Technologies, 2019, 101, 96-110.	7.6	89
23	A methodology for precise camera calibration for data collection applications in urban traffic scenes. Canadian Journal of Civil Engineering, 2013, 40, 57-67.	1.3	88
24	Real-time conflict-based Bayesian Tobit models for safety evaluation of signalized intersections. Accident Analysis and Prevention, 2020, 144, 105660.	5.7	85
25	Methodologies for Aggregating Indicators of Traffic Conflict. Transportation Research Record, 2011, 2237, 10-19.	1.9	83
26	A full Bayes multivariate intervention model with random parameters among matched pairs for beforeâ€"after safety evaluation. Accident Analysis and Prevention, 2011, 43, 87-94.	5.7	78
27	Traffic accident modeling: some statistical issues. Canadian Journal of Civil Engineering, 2006, 33, 1115-1124.	1.3	75
28	Modeling Driver Behavior and Safety on Freeway Merging Areas. Journal of Transportation Engineering, 2008, 134, 370-377.	0.9	75
29	A comparison of collision-based and conflict-based safety evaluations: The case of right-turn smart channels. Accident Analysis and Prevention, 2013, 59, 260-266.	5.7	75
30	Full Bayesian conflict-based models for real time safety evaluation of signalized intersections. Accident Analysis and Prevention, 2019, 129, 367-381.	5.7	75
31	From univariate to bivariate extreme value models: Approaches to integrate traffic conflict indicators for crash estimation. Transportation Research Part C: Emerging Technologies, 2019, 103, 211-225.	7.6	74
32	Transferability of calibrated microsimulation model parameters for safety assessment using simulated conflicts. Accident Analysis and Prevention, 2015, 84, 41-53.	5.7	72
33	Effect of geometric design consistency on road safety. Canadian Journal of Civil Engineering, 2004, 31, 218-227.	1.3	71
34	Comparison of Two Negative Binomial Regression Techniques in Developing Accident Prediction Models. Transportation Research Record, 2006, 1950, 9-16.	1.9	68
35	Simulated Traffic Conflicts. Transportation Research Record, 2015, 2514, 48-57.	1.9	65
36	Bivariate extreme value modeling for road safety estimation. Accident Analysis and Prevention, 2018, 120, 83-91.	5.7	65

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37	Comparison of Traffic Conflict Indicators for Crash Estimation using Peak Over Threshold Approach. Transportation Research Record, 2019, 2673, 493-502.	1.9	63
38	Development of Dynamic Transit Signal Priority Strategy. Transportation Research Record, 2009, 2111, 1-9.	1.9	62
39	Impacts of Various Parameters on Transit Signal Priority Effectiveness. Journal of Public Transportation, 2004, 7, 71-93.	1.2	61
40	Use of Drivers' Jerk Profiles in Computer Vision–Based Traffic Safety Evaluations. Transportation Research Record, 2014, 2434, 103-112.	1.9	59
41	Evaluating the impact of connectivity, continuity, and topography of sidewalk network on pedestrian safety. Accident Analysis and Prevention, 2017, 107, 117-125.	5.7	57
42	Application of Computer Vision to Diagnosis of Pedestrian Safety Issues. Transportation Research Record, 2013, 2393, 75-84.	1.9	56
43	Developing safety performance functions incorporating reliability-based risk measures. Accident Analysis and Prevention, 2011, 43, 2153-2159.	5.7	55
44	A framework for automated road-users classification using movement trajectories. Transportation Research Part C: Emerging Technologies, 2013, 33, 50-73.	7.6	55
45	A novel approach for real time crash prediction at signalized intersections. Transportation Research Part C: Emerging Technologies, 2020, 117, 102683.	7.6	55
46	Identifying Accident-Prone Locations Using Fuzzy Pattern Recognition. Journal of Transportation Engineering, 1995, 121, 352-358.	0.9	53
47	Comparison of Adaptive Network Based Fuzzy Inference Systems and B-spline Neuro-Fuzzy Mode Choice Models. Journal of Computing in Civil Engineering, 2003, 17, 123-130.	4.7	53
48	Evaluating the Safety Risk of Narrow Medians Using Reliability Analysis. Journal of Transportation Engineering, 2006, 132, 366-375.	0.9	53
49	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
50	Measuring safety treatment effects using full Bayes non-linear safety performance intervention functions. Accident Analysis and Prevention, 2012, 45, 152-163.	5.7	52
51	Can Time Proximity Measures be Used as Safety Indicators in All Driving Cultures?. Transportation Research Record, 2015, 2520, 165-174.	1.9	52
52	Analysis of unconventional arterial intersection designs (UAIDs): state-of-the-art methodologies and future research directions. Transportmetrica A: Transport Science, 2013, 9, 860-895.	2.0	49
53	Accident Prediction Models for Urban Unsignalized Intersections in British Columbia. Transportation Research Record, 1999, 1665, 93-99.	1.9	48
54	Transferability of accident prediction models. Safety Science, 2006, 44, 209-219.	4.9	48

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55	Operational performance comparison of four unconventional intersection designs using micro-simulation. Journal of Advanced Transportation, 2013, 47, 536-552.	1.7	47
56	Comparison of Two Unconventional Intersection Schemes. Transportation Research Record, 2007, 2023, 10-19.	1.9	46
57	Establishing Practical Approach for Design Consistency Evaluation. Journal of Transportation Engineering, 2001, 127, 295-302.	0.9	45
58	Assessing the Effect of Pedestrians' Use of Cell Phones on Their Walking Behavior: A Study Based on Automated Video Analysis. Transportation Research Record, 2018, 2672, 46-57.	1.9	45
59	Risk-based framework for accommodating uncertainty in highway geometric design. Canadian Journal of Civil Engineering, 2009, 36, 743-753.	1.3	44
60	Evaluating the impact of bike network indicators on cyclist safety using macro-level collision prediction models. Accident Analysis and Prevention, 2016, 97, 28-37.	5.7	44
61	Risk-Based Highway Design. Transportation Research Record, 2010, 2195, 3-13.	1.9	43
62	Feasibility of Computer Vision-Based Safety Evaluations. Transportation Research Record, 2012, 2280, 18-27.	1.9	43
63	Methodology for safety optimization of highway cross-sections for horizontal curves with restricted sight distance. Accident Analysis and Prevention, 2012, 49, 476-485.	5.7	43
64	Development of Daily Adjustment Factors for Bicycle Traffic. Journal of Transportation Engineering, 2013, 139, 859-871.	0.9	43
65	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
66	Comparison of Two Negative Binomial Regression Techniques in Developing Accident Prediction Models. Transportation Research Record, 2006, 1950, 9-16.	1.9	43
67	Comparison of Neural and Conventional Approaches to Mode Choice Analysis. Journal of Computing in Civil Engineering, 2000, 14, 23-30.	4.7	42
68	Developing evasive action–based indicators for identifying pedestrian conflicts in less organized traffic environments. Journal of Advanced Transportation, 2016, 50, 1193-1208.	1.7	42
69	Modeling pedestrian-cyclist interactions in shared space using inverse reinforcement learning. Transportation Research Part F: Traffic Psychology and Behaviour, 2020, 70, 37-57.	3.7	42
70	Development of a Road Safety Risk Index. Transportation Research Record, 2002, 1784, 33-42.	1.9	41
71	Probabilistic Collision Prediction for Vision-Based Automated Road Safety Analysis. , 2007, , .		41
72	Full Bayes Approach to Before-and-After Safety Evaluation with Matched Comparisons: Case Study of Stop-Sign In-Fill Program. Transportation Research Record, 2010, 2148, 1-8.	1.9	41

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73	Automated Analysis of Pedestrian Group Behavior in Urban Settings. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1880-1889.	8.0	41
74	Application of Extreme Value Theory for Before-After Road Safety Analysis. Transportation Research Record, 2019, 2673, 1001-1010.	1.9	40
75	A systematic review of traffic conflict-based safety measures with a focus on application context. Analytic Methods in Accident Research, 2021, 32, 100185.	8.2	40
76	Measuring direct and indirect treatment effects using safety performance intervention functions. Safety Science, 2012, 50, 1125-1132.	4.9	39
77	Conflict-Based Safety Performance Functions for Predicting Traffic Collisions by Type. Transportation Research Record, 2016, 2583, 50-55.	1.9	39
78	Comparison of threshold determination methods for the deceleration rate to avoid a crash (DRAC)-based crash estimation. Accident Analysis and Prevention, 2021, 153, 106051.	5.7	39
79	Random parameters Bayesian hierarchical modeling of traffic conflict extremes for crash estimation. Accident Analysis and Prevention, 2021, 157, 106159.	5.7	39
80	Bayesian hierarchical modeling of the non-stationary traffic conflict extremes for crash estimation. Analytic Methods in Accident Research, 2019, 23, 100100.	8.2	38
81	Pedestrian gait analysis using automated computer vision techniques. Transportmetrica A: Transport Science, 2014, 10, 214-232.	2.0	37
82	Bayesian dynamic extreme value modeling for conflict-based real-time safety analysis. Analytic Methods in Accident Research, 2022, 34, 100204.	8.2	37
83	Evaluating the Insurance Corporation of British Columbia Road-Safety Improvement Program. Transportation Research Record, 2004, 1865, 57-63.	1.9	36
84	Multi-type Bayesian hierarchical modeling of traffic conflict extremes for crash estimation. Accident Analysis and Prevention, 2021, 160, 106309.	5.7	36
85	Macrolevel Collision Prediction Models to Enhance Traditional Reactive Road Safety Improvement Programs. Transportation Research Record, 2007, 2019, 65-73.	1.9	35
86	Self-learning adaptive traffic signal control for real-time safety optimization. Accident Analysis and Prevention, 2020, 146, 105713.	5.7	35
87	Calibrating Road Design Guides Using Risk-Based Reliability Analysis. Journal of Transportation Engineering, 2014, 140, .	0.9	34
88	Automated Pedestrian Safety Analysis at a Signalized Intersection in New York City: Automated Data Extraction for Safety Diagnosis and Behavioral Study. Transportation Research Record, 2015, 2519, 17-27.	1.9	34
89	Safety evaluation of unconventional outside left-turn lane using automated traffic conflict techniques. Canadian Journal of Civil Engineering, 2016, 43, 631-642.	1.3	34
90	Investigating the effect of spatial and mode correlations on active transportation safety modeling. Analytic Methods in Accident Research, 2017, 16, 60-74.	8.2	34

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91	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
92	Characterization of bicycle following and overtaking maneuvers on cycling paths. Transportation Research Part C: Emerging Technologies, 2019, 98, 139-151.	7.6	34
93	Operational performance analysis of the unconventional median U-turn intersection design. Canadian Journal of Civil Engineering, 2011, 38, 1249-1261.	1.3	32
94	Multi-mode reliability-based design of horizontal curves. Accident Analysis and Prevention, 2016, 93, 124-134.	5.7	32
95	Evaluating the safety impacts of powered two wheelers on a shared roadway in China using automated video analysis. Journal of Transportation Safety and Security, 2019, 11, 414-429.	1.6	32
96	Automated Collection of Pedestrian Data through Computer Vision Techniques. Transportation Research Record, 2012, 2299, 121-127.	1.9	31
97	A comparison between PARAMICS and VISSIM in estimating automated field‐measured traffic conflicts at signalized intersections. Journal of Advanced Transportation, 2016, 50, 897-917.	1.7	31
98	Multivariate Bayesian hierarchical modeling of the non-stationary traffic conflict extremes for crash estimation. Analytic Methods in Accident Research, 2020, 28, 100135.	8.2	31
99	Multivariate Bayesian hierarchical Gaussian copula modeling of the non-stationary traffic conflict extremes for crash estimation. Analytic Methods in Accident Research, 2021, 29, 100154.	8.2	31
100	Bayesian estimation of conflict-based safety performance functions. Journal of Transportation Safety and Security, 2016, 8, 266-279.	1.6	30
101	A bi-directional agent-based pedestrian microscopic model. Transportmetrica A: Transport Science, 2017, 13, 326-355.	2.0	30
102	Models to evaluate the severity of pedestrian-vehicle conflicts in five cities. Transportmetrica A: Transport Science, 2019, 15, 354-375.	2.0	30
103	Modeling the influence of mobile phone use distraction on pedestrian reaction times to green signals: A multilevel mixed-effects parametric survival model. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 81, 115-129.	3.7	30
104	A bivariate extreme value model for estimating crash frequency by severity using traffic conflicts. Analytic Methods in Accident Research, 2021, 32, 100180.	8.2	30
105	How many are enough?: Investigating the effectiveness of multiple conflict indicators for crash frequency-by-severity estimation by automated traffic conflict analysis. Transportation Research Part C: Emerging Technologies, 2022, 138, 103653.	7.6	30
106	Bayesian hierarchical modeling of traffic conflict extremes for crash estimation: A non-stationary peak over threshold approach. Analytic Methods in Accident Research, 2019, 24, 100106.	8.2	29
107	Microscopic behavioural analysis of cyclist and pedestrian interactions in shared spaces. Canadian Journal of Civil Engineering, 2020, 47, 50-62.	1.3	29
108	An extreme value theory based approach for calibration of microsimulation models for safety analysis. Simulation Modelling Practice and Theory, 2021, 106, 102172.	3.8	29

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109	Forecasting cyanobacterium Anabaena spp. in the River Murray, South Australia, using B-spline neurofuzzy models. Ecological Modelling, 2001, 146, 85-96.	2.5	28
110	New Algorithm for Calculating 3D Available Sight Distance. Journal of Transportation Engineering, 2007, 133, 572-581.	0.9	28
111	Estimation of Frequency and Length of Pedestrian Stride in Urban Environments with Video Sensors. Transportation Research Record, 2011, 2264, 138-147.	1.9	28
112	Safety models incorporating graph theory based transit indicators. Accident Analysis and Prevention, 2013, 50, 635-644.	5.7	28
113	Collision modification functions: Incorporating changes over time. Accident Analysis and Prevention, 2014, 70, 46-54.	5.7	28
114	Safety performance functions with measurement errors in traffic volume. Safety Science, 2010, 48, 1339-1344.	4.9	27
115	A large margin framework for single camera offline tracking with hybrid cues. Computer Vision and Image Understanding, 2012, 116, 676-689.	4.7	27
116	Macro-spatial approach for evaluating the impact of socio-economics, land use, built environment, and road facility on pedestrian safety. Canadian Journal of Civil Engineering, 2017, 44, 1036-1044.	1.3	27
117	Accounting for mediation in cyclist-vehicle crash models: A Bayesian mediation analysis approach. Accident Analysis and Prevention, 2019, 131, 122-130.	5.7	27
118	A bivariate Bayesian hierarchical extreme value model for traffic conflict-based crash estimation. Analytic Methods in Accident Research, 2020, 25, 100111.	8.2	27
119	A framework to proactively consider road safety within the road planning process. Canadian Journal of Civil Engineering, 2003, 30, 711-719.	1.3	26
120	Risk-optimal highway design: Methodology and case studies. Safety Science, 2012, 50, 1513-1521.	4.9	26
121	Using Macrolevel Collision Prediction Models in Road Safety Planning Applications. Transportation Research Record, 2006, 1950, 73-82.	1.9	26
122	Influence of Vertical Alignment on Horizontal Curve Perception: Phase I: Examining the Hypothesis. Transportation Research Record, 2002, 1796, 12-23.	1.9	25
123	Modeling Freeway Diverging Behavior on Deceleration Lanes. Transportation Research Record, 2007, 2012, 30-37.	1.9	25
124	Development of a cycling data model: City of Vancouver case study. Canadian Journal of Civil Engineering, 2015, 42, 1000-1010.	1.3	25
125	Comparison of Time-Proximity and Evasive Action Conflict Measures: Case Studies from Five Cities. Transportation Research Record, 2017, 2661, 19-29.	1.9	25
126	Evaluating the safety and operational impacts of left-turn bay extension at signalized intersections using automated video analysis. Accident Analysis and Prevention, 2018, 120, 13-27.	5.7	25

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127	Analysis of Crash Rates at Freeway Diverge Areas using Bayesian Tobit Modeling Framework. Transportation Research Record, 2019, 2673, 652-662.	1.9	25
128	Upstream Signalized Crossover Intersection: An Unconventional Intersection Scheme. Journal of Transportation Engineering, 2006, 132, 907-911.	0.9	24
129	Impact of Rumble Strips on Collision Reduction on Highways in British Columbia, Canada: Comprehensive Before-and-After Safety Study. Transportation Research Record, 2010, 2148, 9-15.	1.9	24
130	How drivers adapt to drive in driving simulator, and what is the impact of practice scenario on the research?. Transportation Research Part F: Traffic Psychology and Behaviour, 2013, 16, 41-52.	3.7	24
131	Computer Vision Techniques for the Automated Collection of Cyclist Data. Transportation Research Record, 2013, 2387, 10-19.	1.9	24
132	Using automated walking gait analysis for the identification of pedestrian attributes. Transportation Research Part C: Emerging Technologies, 2014, 48, 16-36.	7.6	24
133	Investigating the accuracy of Bayesian techniques for beforeâ€"after safety studies: The case of a â€œno treatmentâ€•evaluation. Accident Analysis and Prevention, 2015, 78, 138-145.	5.7	24
134	Evaluating the Impact of Socioeconomics, Land Use, Built Environment, and Road Facility on Cyclist Safety. Transportation Research Record, 2017, 2659, 33-42.	1.9	24
135	Comparison of Fuzzy and Neural Classifiers for Road Accidents Analysis. Journal of Computing in Civil Engineering, 1998, 12, 42-47.	4.7	23
136	Automated Analysis of Pedestrian Crossing Speed Behavior at Scramble-phase Signalized Intersections Using Computer Vision Techniques. International Journal of Sustainable Transportation, 2014, 8, 382-397.	4.1	23
137	Automated Roundabout Safety Analysis: Diagnosis and Remedy of Safety Problems. Journal of Transportation Engineering, 2016, 142, .	0.9	23
138	Effect of speed prediction models and perceived radius on design consistency. Canadian Journal of Civil Engineering, 2005, 32, 388-399.	1.3	22
139	Transferability of Community-Based Collision Prediction Models for Use in Road Safety Planning Applications. Journal of Transportation Engineering, 2010, 136, 871-880.	0.9	22
140	Microscopic Pedestrian Interaction Behavior Analysis Using Gait Parameters. Transportation Research Record, 2015, 2519, 28-38.	1.9	22
141	Automated analysis of pedestrian walking behaviour at a signalised intersection in China. IET Intelligent Transport Systems, 2017, 11, 28-36.	3.0	22
142	Exploring Evasive Actionâ€"Based Indicators for PTW Conflicts in Shared Traffic Facility Environments. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	1.4	22
143	Transferability of real-time safety performance functions for signalized intersections. Accident Analysis and Prevention, 2019, 129, 263-276.	5.7	22
144	Markov-game modeling of cyclist-pedestrian interactions in shared spaces: A multi-agent adversarial inverse reinforcement learning approach. Transportation Research Part C: Emerging Technologies, 2021, 128, 103191.	7.6	22

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145	Forecasting Cyanobacterial Concentrations Using B-Spline Networks. Journal of Computing in Civil Engineering, 2000, 14, 183-189.	4.7	21
146	A method to account for outliers in the development of safety performance functions. Accident Analysis and Prevention, 2010, 42, 1266-1272.	5.7	21
147	Application of generalized link functions in developing accident prediction models. Safety Science, 2010, 48, 410-416.	4.9	21
148	Models for estimating zone-level bike kilometers traveled using bike network, land use, and road facility variables. Transportation Research, Part A: Policy and Practice, 2017, 96, 14-28.	4.2	21
149	Comparison between Surrogate Safety Assessment Model and Real-Time Safety Models in Predicting Field-Measured Conflicts at Signalized Intersections. Transportation Research Record, 2020, 2674, 100-112.	1.9	21
150	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
151	Modeling pedestrian behavior in pedestrian-vehicle near misses: A continuous Gaussian Process Inverse Reinforcement Learning (GP-IRL) approach. Accident Analysis and Prevention, 2021, 161, 106355.	5.7	21
152	Real-time signal-vehicle coupled control: An application of connected vehicle data to improve intersection safety. Accident Analysis and Prevention, 2021, 162, 106389.	5.7	21
153	Influence of Vertical Alignment on Horizontal Curve Perception: Phase II: Modeling Perceived Radius. Transportation Research Record, 2002, 1796, 24-34.	1.9	20
154	Linear and Nonlinear Safety Intervention Models. Transportation Research Record, 2012, 2280, 28-37.	1.9	20
155	Accounting for heterogeneity among treatment sites and time trends in developing crash modification functions. Accident Analysis and Prevention, 2014, 72, 116-126.	5.7	20
156	The use of gait parameters to evaluate pedestrian behavior at scramble phase signalized intersections. Journal of Advanced Transportation, 2015, 49, 523-534.	1.7	20
157	Using Macrolevel Collision Prediction Models in Road Safety Planning Applications. Transportation Research Record, 2006, 1950, 73-82.	1.9	19
158	Examining pedestrian evasive actions as a potential indicator for traffic conflicts. IET Intelligent Transport Systems, 2017, 11, 282-289.	3.0	19
159	Reliability-Based Analysis of Sight Distance Modelling for Traffic Safety. Journal of Advanced Transportation, 2017, 2017, 1-12.	1.7	19
160	Microscopic modeling of cyclists interactions with pedestrians in shared spaces: a Gaussian process inverse reinforcement learning approach. Transportmetrica A: Transport Science, 2022, 18, 828-854.	2.0	19
161	Automated Analysis of Pedestriansâ€™ Nonconforming Behavior and Data Collection at an Urban Crossing. Transportation Research Record, 2014, 2443, 123-133.	1.9	18
162	Optimal route risk-based algorithm for hazardous material transport in Kuwait. Journal of Loss Prevention in the Process Industries, 2018, 52, 40-53.	3.3	18

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163	A composite zonal index for biking attractiveness and safety. Accident Analysis and Prevention, 2020, 137, 105439.	5.7	18
164	FREIGHT MODE CHOICE MODELS USING ARTIFICIAL NEURAL NETWORKS. Civil Engineering and Environmental Systems, 1999, 16, 267-286.	0.9	17
165	Travel time estimation in urban networks using limited probes data. Canadian Journal of Civil Engineering, 2011, 38, 305-318.	1.3	17
166	Multivariate Full Bayesian Hot Spot Identification and Ranking. Transportation Research Record, 2015, 2515, 1-9.	1.9	17
167	Investigating safety effects of wider longitudinal pavement markings. Accident Analysis and Prevention, 2020, 142, 105527.	5.7	17
168	Random-Parameter Bayesian Hierarchical Extreme Value Modeling Approach with Heterogeneity in Means and Variances for Traffic Conflictâ€"Based Crash Estimation. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	1.4	17
169	Community-Based, Macrolevel Collision Prediction Model Use with a Regional Transportation Plan. Journal of Transportation Engineering, 2010, 136, 120-128.	0.9	16
170	Use of Computer Vision to Identify Pedestrians' Nonconforming Behavior at Urban Intersections. Transportation Research Record, 2012, 2279, 54-64.	1.9	16
171	Sight Distance Standards Based on Observational Data Risk Evaluation of Passing. Transportation Research Record, 2014, 2404, 18-26.	1.9	16
172	Computer vision approach for the classification of bike type (motorized versus nonâ€motorized) during busy traffic in the city of Shanghai. Journal of Advanced Transportation, 2016, 50, 348-362.	1.7	16
173	A full Bayes before-after study accounting for temporal and spatial effects: Evaluating the safety impact of new signal installations. Accident Analysis and Prevention, 2016, 94, 52-58.	5.7	16
174	Determining If Walkability and Bikeability Indices Reflect Pedestrian and Cyclist Safety. Transportation Research Record, 2020, 2674, 767-775.	1.9	16
175	System reliability as a surrogate measure of safety for horizontal curves: methodology and case studies. Transportmetrica A: Transport Science, 2020, 16, 957-986.	2.0	16
176	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
177	Spatial Effects on Zone-Level Collision Prediction Models. Transportation Research Record, 2013, 2398, 50-59.	1.9	15
178	Automated Analysis and Validation of Right-Turn Merging Behavior. Journal of Transportation Safety and Security, 2015, 7, 138-152.	1.6	15
179	Evaluating the safety impact of increased speed limits on rural highways in British Columbia. Accident Analysis and Prevention, 2016, 95, 172-177.	5.7	15
180	Traffic Conflictâ€"Based Beforeâ€"After Study with Use of Comparison Groups and the Empirical Bayes Method. Transportation Research Record, 2017, 2659, 15-24.	1.9	15

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181	Unconventional USC intersection corridors: evaluation of potential implementation in Doha, Qatar. Journal of Advanced Transportation, 2011, 45, 38-53.	1.7	14
182	A unidirectional agent based pedestrian microscopic model. Canadian Journal of Civil Engineering, 2015, 42, 1114-1124.	1.3	14
183	Validation of an agent-based microscopic pedestrian simulation model in a crowded pedestrian walking environment. Transportation Planning and Technology, 2019, 42, 1-22.	2.0	14
184	Influence of vertical alignment on horizontal curve perception: effect of spirals and position of vertical curve. Canadian Journal of Civil Engineering, 2005, 32, 204-212.	1.3	13
185	Evaluation of Intersection Safety Camera Program in Edmonton, Canada. Transportation Research Record, 2007, 2009, 37-45.	1.9	13
186	Before–After Safety Evaluation Using Full Bayesian Macroscopic Multivariate and Spatial Models. Transportation Research Record, 2016, 2601, 128-137.	1.9	13
187	Framework for evaluating risk of limited sight distance for permitted left-turn movements: case study. Canadian Journal of Civil Engineering, 2016, 43, 369-377.	1.3	13
188	Exploring walking gait features for the automated recognition of distracted pedestrians. IET Intelligent Transport Systems, 2016, 10, 106-113.	3.0	13
189	Road users' behavior and safety analysis of pedestrian–bike shared space: case study of Robson Street in Vancouver. Canadian Journal of Civil Engineering, 2018, 45, 1053-1064.	1.3	13
190	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
191	Insight into Steering Adaptation Patterns in a Driving Simulator. Transportation Research Record, 2010, 2185, 33-39.	1.9	12
192	Depth-based hotspot identification and multivariate ranking using the full Bayes approach. Accident Analysis and Prevention, 2013, 50, 1082-1089.	5.7	12
193	Methodology to Analyze Adaptation in Driving Simulators. Transportation Research Record, 2009, 2138, 94-101.	1.9	11
194	Automated Detection of Spatial Traffic Violations through use of Video Sensors. Transportation Research Record, 2011, 2241, 87-98.	1.9	11
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