

Analytic methods in accident research: Methodological

Analytic Methods in Accident Research

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Latent class analysis of the effects of age, gender, and alcohol consumption on driver-injury severities. <i>Analytic Methods in Accident Research</i> , 2014, 3-4, 56-91.	4.7	126
2	Comparison of factors affecting injury severity in angle collisions by fault status using a random parameters bivariate ordered probit model. <i>Analytic Methods in Accident Research</i> , 2014, 2, 21-29.	4.7	141
3	Incorporating spatial dependence in simultaneously modeling crash frequency and severity. <i>Analytic Methods in Accident Research</i> , 2014, 2, 1-11.	4.7	47
4	A comparison of the mixed logit and latent class methods for crash severity analysis. <i>Analytic Methods in Accident Research</i> , 2014, 3-4, 11-27.	4.7	112
5	A two-stage bivariate logistic-Tobit model for the safety analysis of signalized intersections. <i>Analytic Methods in Accident Research</i> , 2014, 3-4, 1-10.	4.7	19
6	Crash frequency modeling using negative binomial models: An application of generalized estimating equation to longitudinal data. <i>Analytic Methods in Accident Research</i> , 2014, 2, 52-69.	4.7	36
7	Applying the Generalized Waring model for investigating sources of variance in motor vehicle crash analysis. <i>Accident Analysis and Prevention</i> , 2014, 73, 20-26.	3.0	15
8	Finite mixture modeling for vehicle crash data with application to hotspot identification. <i>Accident Analysis and Prevention</i> , 2014, 71, 319-326.	3.0	37
9	Crash frequency modeling for signalized intersections in a high-density urban road network. <i>Analytic Methods in Accident Research</i> , 2014, 2, 39-51.	4.7	73
10	Pedestrian at-fault crashes on rural and urban roadways in Alabama. <i>Accident Analysis and Prevention</i> , 2014, 72, 267-276.	3.0	69
11	Partial proportional odds model—An alternate choice for analyzing pedestrian crash injury severities. <i>Accident Analysis and Prevention</i> , 2014, 72, 330-340.	3.0	86
12	A count data model with endogenous covariates: Formulation and application to roadway crash frequency at intersections. <i>Analytic Methods in Accident Research</i> , 2014, 1, 53-71.	4.7	53
13	Modeling safety of highway work zones with random parameters and random effects models. <i>Analytic Methods in Accident Research</i> , 2014, 1, 86-95.	4.7	98
14	A latent class analysis of single-vehicle motorcycle crash severity outcomes. <i>Analytic Methods in Accident Research</i> , 2014, 2, 30-38.	4.7	147
15	The analysis of vehicle crash injury-severity data: A Markov switching approach with road-segment heterogeneity. <i>Transportation Research Part B: Methodological</i> , 2014, 67, 109-128.	2.8	124
16	Investigating crash injury severity at unsignalized intersections in Heilongjiang Province, China. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2014, 1, 272-279.	2.0	17
17	Comparison of Sichel and Negative Binomial Models in Hot Spot Identification. <i>Transportation Research Record</i> , 2014, 2460, 107-116.	1.0	25
18	How Differences in Roadways Affect School Travel Safety. <i>Journal of the American Planning Association</i> , 2015, 81, 203-220.	0.9	28

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19	A Bayesian network model to predict accidents on Swiss highways. <i>Infrastructure Asset Management</i> , 2015, 2, 145-158.	1.2	43
20	Modeling traffic crash rates of road segments through a lognormal hurdle framework with flexible scale parameter. <i>Journal of Advanced Transportation</i> , 2015, 49, 928-940.	0.9	31
21	Injury Sources for Second Row Occupants in Frontal Crashes Considering Age and Restraint Condition Influence. , 0, , .		1
22	Application of the Empirical Bayes Method with the Finite Mixture Model for Identifying Accident-Prone Spots. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-10.	0.6	6
23	Fuzzy modeling of freeway accident duration with rainfall and traffic flow interactions. <i>Analytic Methods in Accident Research</i> , 2015, 5-6, 59-71.	4.7	22
24	Exploring Driver Injury Severity at Intersection: An Ordered Probit Analysis. <i>Advances in Mechanical Engineering</i> , 2015, 7, 567124.	0.8	11
25	Exploring Piecewise Linear Effects of Crash Contributing Factors with a Novel Poisson-Mixed Multivariate Adaptive Regression Splines Model. <i>Transportation Research Record</i> , 2015, 2515, 17-25.	1.0	3
26	Modeling Crash Rates for a Mountainous Highway by Using Refined-Scale Panel Data. <i>Transportation Research Record</i> , 2015, 2515, 10-16.	1.0	33
27	Exploring the Nature and Severity of Heavy Truck Crashes in Abu Dhabi, United Arab Emirates. <i>Transportation Research Record</i> , 2015, 2517, 1-9.	1.0	5
28	Safety Analysis of Freeway Segments with Random Parameters. <i>Transportation Research Record</i> , 2015, 2515, 78-85.	1.0	1
29	A Spatial Analysis of Land Use and Network Effects on Frequency and Severity of Cyclist-Motorist Crashes in the Copenhagen Region. <i>Traffic Injury Prevention</i> , 2015, 16, 724-731.	0.6	73
30	Motor vehicle drivers' injuries in train-motor vehicle crashes. <i>Accident Analysis and Prevention</i> , 2015, 74, 162-168.	3.0	51
31	Impacts of Signal-Related Characteristics on Crash Frequency at Urban Signalized Intersections. <i>Journal of Transportation Safety and Security</i> , 2015, 7, 199-207.	1.1	21
32	Built environment factors in explaining the automobile-involved bicycle crash frequencies: A spatial statistic approach. <i>Safety Science</i> , 2015, 79, 336-343.	2.6	105
33	Detecting unforgiving roadside contributors through the severity analysis of ran-off-road crashes. <i>Accident Analysis and Prevention</i> , 2015, 80, 262-273.	3.0	59
34	Effects of extraordinary snowfall on traffic safety. <i>Accident Analysis and Prevention</i> , 2015, 81, 194-203.	3.0	28
35	Empirical Analysis of Crash Injury Severity on Mountainous and Nonmountainous Interstate Highways. <i>Traffic Injury Prevention</i> , 2015, 16, 715-723.	0.6	14
36	Modeling over-dispersed crash data with a long tail: Examining the accuracy of the dispersion parameter in Negative Binomial models. <i>Analytic Methods in Accident Research</i> , 2015, 5-6, 1-16.	4.7	33

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37	Railâ€“Truck Multimodal Freight Collaboration: Truck Freight Carrier Perspectives in the United States. <i>Journal of Transportation Engineering</i> , 2015, 141, .	0.9	19
38	Modeling crash frequency and severity with spatiotemporal dependence. <i>Analytic Methods in Accident Research</i> , 2015, 5-6, 43-58.	4.7	43
39	The temporal stability of factors affecting driver-injury severities in single-vehicle crashes: Some empirical evidence. <i>Analytic Methods in Accident Research</i> , 2015, 8, 7-32.	4.7	174
40	Hierarchical Bayesian random intercept model-based cross-level interaction decomposition for truck driver injury severity investigations. <i>Accident Analysis and Prevention</i> , 2015, 85, 186-198.	3.0	59
41	Accident analysis with aggregated data: The random parameters negative binomial panel count data model. <i>Analytic Methods in Accident Research</i> , 2015, 7, 37-49.	4.7	75
42	Multilevel models for evaluating the risk of pedestrianâ€“motor vehicle collisions at intersections and mid-blocks. <i>Accident Analysis and Prevention</i> , 2015, 84, 99-111.	3.0	48
43	Multilevel models to analyze before and after speed data. <i>Analytic Methods in Accident Research</i> , 2015, 8, 33-44.	4.7	9
44	An efficient parallel sampling technique for Multivariate Poisson-Lognormal model: Analysis with two crash count datasets. <i>Analytic Methods in Accident Research</i> , 2015, 8, 45-60.	4.7	32
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49	Modeling crash spatial heterogeneity: Random parameter versus geographically weighting. <i>Accident Analysis and Prevention</i> , 2015, 75, 16-25.	3.0	190
50	Safety performance functions incorporating design consistency variables. <i>Accident Analysis and Prevention</i> , 2015, 74, 133-144.	3.0	74
51	Injury Severity of Motorcycle Riders Involved in Traffic Crashes in Hunan, China: A Mixed Ordered Logit Approach. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 714.	1.2	75
52	Crash Frequency Analysis Using Hurdle Models with Random Effects Considering Short-Term Panel Data. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1043.	1.2	14
53	Rural casualty crashes on the Kings Highway: A new approach for road safety studies. <i>Accident Analysis and Prevention</i> , 2016, 95, 8-19.	3.0	11
54	The effect of extreme weather conditions on commercial fishing activities and vessel incidents in Atlantic Canada. <i>Ocean and Coastal Management</i> , 2016, 130, 115-127.	2.0	32

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55	Weather impacts on single-vehicle truck crash injury severity. <i>Journal of Safety Research</i> , 2016, 58, 57-65.	1.7	143
56	Analyzing injury crashes using random-parameter bivariate regression models. <i>Transportmetrica A: Transport Science</i> , 2016, 12, 794-810.	1.3	21
57	Transferability Analysis of Heterogeneous Overdispersion Parameter Negative Binomial Crash Models. <i>Transportation Research Record</i> , 2016, 2583, 99-109.	1.0	19
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60	A Multivariate Spatial-Time of Day Analysis of Truck Crash Frequency across Neighborhoods in New York City. <i>Advances in Econometrics</i> , 2016, , 195-219.	0.2	0
61	Examining the safety impacts of narrow lane widths on urban/suburban arterials: Estimation of a panel data random parameters negative binomial model. <i>Journal of Transportation Safety and Security</i> , 0, , 1-16.	1.1	1
62	Risk factors for the severity of injury incurred in crashes involving on-duty police cars. <i>Traffic Injury Prevention</i> , 2016, 17, 495-501.	0.6	12
63	Multilevel Dirichlet process mixture analysis of railway grade crossing crash data. <i>Analytic Methods in Accident Research</i> , 2016, 9, 27-43.	4.7	30
64	Fast Bayesian inference for modeling multivariate crash counts. <i>Analytic Methods in Accident Research</i> , 2016, 9, 44-53.	4.7	43
65	Macroscopic modeling of pedestrian and bicycle crashes: A cross-comparison of estimation methods. <i>Accident Analysis and Prevention</i> , 2016, 93, 147-159.	3.0	99
66	A semiparametric negative binomial generalized linear model for modeling over-dispersed count data with a heavy tail: Characteristics and applications to crash data. <i>Accident Analysis and Prevention</i> , 2016, 91, 10-18.	3.0	46
67	Infrastructure and spatial effects on the frequency of cyclist-motorist collisions in the Copenhagen Region. <i>Journal of Transportation Safety and Security</i> , 2016, 8, 346-360.	1.1	22
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69	Exploratory multinomial logit model-based driver injury severity analyses for teenage and adult drivers in intersection-related crashes. <i>Traffic Injury Prevention</i> , 2016, 17, 413-422.	0.6	50
70	Unobserved heterogeneity and the statistical analysis of highway accident data. <i>Analytic Methods in Accident Research</i> , 2016, 11, 1-16.	4.7	772
71	Safety evaluation of continuous green T intersections: A propensity scores-genetic matching-potential outcomes approach. <i>Accident Analysis and Prevention</i> , 2016, 93, 1-13.	3.0	25
72	Modeling the effects of AADT on predicting multiple-vehicle crashes at urban and suburban signalized intersections. <i>Accident Analysis and Prevention</i> , 2016, 91, 72-83.	3.0	12

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73	Rail-truck multimodal freight collaboration: a statistical analysis of freight-shipper perspectives. <i>Transportation Planning and Technology</i> , 2016, 39, 484-506.	0.9	17
74	Rule extraction from an optimized neural network for traffic crash frequency modeling. <i>Accident Analysis and Prevention</i> , 2016, 97, 87-95.	3.0	53
75	Bayesian nonparametric modeling in transportation safety studies: Applications in univariate and multivariate settings. <i>Analytic Methods in Accident Research</i> , 2016, 12, 18-34.	4.7	20
76	Exploring the impacts of factors contributing to tram-involved serious injury crashes on Melbourne tram routes. <i>Accident Analysis and Prevention</i> , 2016, 94, 238-244.	3.0	23
77	Analysis of occupant injury severity in winter weather crashes: A fully Bayesian multivariate approach. <i>Analytic Methods in Accident Research</i> , 2016, 11, 33-47.	4.7	36
78	Modeling unobserved heterogeneity using finite mixture random parameters for spatially correlated discrete count data. <i>Transportation Research Part B: Methodological</i> , 2016, 91, 492-510.	2.8	46
79	A comparative empirical analysis of statistical models for evaluating highway segment crash frequency. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2016, 3, 374-379.	2.0	6
80	M5 model tree based predictive modeling of road accidents on non-urban sections of highways in India. <i>Accident Analysis and Prevention</i> , 2016, 96, 108-117.	3.0	44
81	Development of safety performance functions for Spanish two-lane rural highways on flat terrain. <i>Accident Analysis and Prevention</i> , 2016, 95, 250-265.	3.0	28
82	An empirical assessment of the effects of economic recessions on pedestrian-injury crashes using mixed and latent-class models. <i>Analytic Methods in Accident Research</i> , 2016, 12, 1-17.	4.7	166
83	Investigating the gender differences on bicycle-vehicle conflicts at urban intersections using an ordered logit methodology. <i>Accident Analysis and Prevention</i> , 2016, 97, 19-27.	3.0	53
84	Modeling the equivalent property damage only crash rate for road segments using the hurdle regression framework. <i>Analytic Methods in Accident Research</i> , 2016, 11, 48-61.	4.7	26
85	Relationship between bus driver characteristics and traffic violations. <i>International Journal of Services and Standards</i> , 2016, 11, 43.	0.2	0
86	A method to account for and estimate underreporting in crash frequency research. <i>Accident Analysis and Prevention</i> , 2016, 95, 57-66.	3.0	23
87	Use of Mixed Distribution Generalized Linear Models to Quantify Safety Effects of Rural Roadway Features. <i>Transportation Research Record</i> , 2016, 2583, 134-141.	1.0	18
88	Safety-oriented pavement performance thresholds: Accounting for unobserved heterogeneity in a multi-objective optimization and goal programming approach. <i>Analytic Methods in Accident Research</i> , 2016, 12, 35-47.	4.7	32
89	Crash analysis at intersections in the CBD: A survival analysis model. <i>Transportation Research, Part A: Policy and Practice</i> , 2016, 94, 558-572.	2.0	19
90	The interactive effect on injury severity of driver-vehicle units in two-vehicle crashes. <i>Journal of Safety Research</i> , 2016, 59, 105-111.	1.7	35

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91	The Palm distribution of traffic conditions and its application to accident risk assessment. <i>Analytic Methods in Accident Research</i> , 2016, 12, 48-65.	4.7	20
92	Introducing Latent Psychological Constructs in Injury Severity Modeling: Multivehicle and Multioccupant Approach. <i>Transportation Research Record</i> , 2016, 2601, 110-118.	1.0	5
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94	Random-parameters analysis of energy consumption and economic output on carbon dioxide emissions. <i>Energy Systems</i> , 2016, 7, 549-568.	1.8	3
95	Statistical modeling of total crash frequency at highway intersections. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2016, 3, 166-171.	2.0	15
96	A hybrid finite mixture model for exploring heterogeneous ordering patterns of driver injury severity. <i>Accident Analysis and Prevention</i> , 2016, 89, 62-73.	3.0	25
97	Multivariate random parameters collision count data models with spatial heterogeneity. <i>Analytic Methods in Accident Research</i> , 2016, 9, 1-15.	4.7	111
98	Spatial regression analysis of traffic crashes in Seoul. <i>Accident Analysis and Prevention</i> , 2016, 91, 190-199.	3.0	91
99	Copula-based regression modeling of bivariate severity of temporary disability and permanent motor injuries. <i>Accident Analysis and Prevention</i> , 2016, 89, 142-150.	3.0	13
100	Re-visiting crash speed relationships: A new perspective in crash modelling. <i>Accident Analysis and Prevention</i> , 2016, 86, 173-185.	3.0	101
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105	Integration of geometric consistency contributory factors in three-leg junctions collision prediction models of Portuguese two-lane national highways. <i>Accident Analysis and Prevention</i> , 2016, 86, 59-67.	3.0	4
106	Built environment effects on cyclist injury severity in automobile-involved bicycle crashes. <i>Accident Analysis and Prevention</i> , 2016, 86, 239-246.	3.0	106
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108	Comparison and analysis of road tunnel traffic accident frequencies and rates using random-parameter models. <i>Journal of Transportation Safety and Security</i> , 2016, 8, 177-195.	1.1	40

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110	Driver injury severity related to inclement weather at highway-rail grade crossings in the United States. <i>Traffic Injury Prevention</i> , 2016, 17, 31-38.	0.6	23
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118	Using a flexible multivariate latent class approach to model correlated outcomes: A joint analysis of pedestrian and cyclist injuries. <i>Analytic Methods in Accident Research</i> , 2017, 13, 16-27.	4.7	66
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120	Grouped random parameters bivariate probit analysis of perceived and observed aggressive driving behavior: A driving simulation study. <i>Analytic Methods in Accident Research</i> , 2017, 13, 52-64.	4.7	70
121	An empirical analysis of run-off-road injury severity crashes involving large trucks. <i>Accident Analysis and Prevention</i> , 2017, 102, 93-100.	3.0	69
122	Safety Effects of Horizontal Curve Design on Motorcycle Crash Frequency on Rural, Two-Lane, Undivided Highways in Florida. <i>Transportation Research Record</i> , 2017, 2637, 1-8.	1.0	21
123	Modeling single-vehicle run-off-road crash severity in rural areas: Accounting for unobserved heterogeneity and age difference. <i>Accident Analysis and Prevention</i> , 2017, 101, 124-134.	3.0	68
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128	The effects of drug and alcohol consumption on driver injury severities in single-vehicle crashes. <i>Traffic Injury Prevention</i> , 2017, 18, 456-462.	0.6	56
129	The effect of passengers on driver-injury severities in single-vehicle crashes: A random parameters heterogeneity-in-means approach. <i>Analytic Methods in Accident Research</i> , 2017, 14, 41-53.	4.7	155
130	A new spatial and flexible multivariate random-coefficients model for the analysis of pedestrian injury counts by severity level. <i>Analytic Methods in Accident Research</i> , 2017, 16, 1-22.	4.7	49
131	Estimating Factors Contributing to Frequency and Severity of Large Truck-Involved Crashes. <i>Journal of Transportation Engineering Part A: Systems</i> , 2017, 143, .	0.8	35
132	A Modified Rank Ordered Logit model to analyze injury severity of occupants in multivehicle crashes. <i>Analytic Methods in Accident Research</i> , 2017, 14, 22-40.	4.7	38
133	The effect of long term non-invasive pavement deterioration on accident injury-severity rates: A seemingly unrelated and multivariate equations approach. <i>Analytic Methods in Accident Research</i> , 2017, 13, 1-15.	4.7	43
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136	Do safety performance functions used for predicting crash frequency vary across space? Applying geographically weighted regressions to account for spatial heterogeneity. <i>Accident Analysis and Prevention</i> , 2017, 109, 132-142.	3.0	55
137	Cluster-Based Approach to Analyzing Crash Injury Severity at Highway-Rail Grade Crossings. <i>Transportation Research Record</i> , 2017, 2608, 58-69.	1.0	23
138	A comparative injury severity analysis of motorcycle at-fault crashes on rural and urban roadways in Alabama. <i>Accident Analysis and Prevention</i> , 2017, 108, 163-171.	3.0	55
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142	Development of regionalized SPFs for two-lane rural roads in Pennsylvania. <i>Accident Analysis and Prevention</i> , 2017, 108, 343-353.	3.0	17
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146	Modeling the impact of latent driving patterns on traffic safety using mobile sensor data. <i>Accident Analysis and Prevention</i> , 2017, 107, 92-101.	3.0	9
147	Determinants of bicyclist injury severities in bicycle-vehicle crashes: A random parameters approach with heterogeneity in means and variances. <i>Analytic Methods in Accident Research</i> , 2017, 16, 35-47.	4.7	225
148	Crash modeling for intersections and segments along corridors: A Bayesian multilevel joint model with random parameters. <i>Analytic Methods in Accident Research</i> , 2017, 16, 48-59.	4.7	43
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151	Work Zone Safety Performance: Comparison of Alternative Traffic Control Strategies. <i>Transportation Research Record</i> , 2017, 2617, 87-93.	1.0	7
152	Accidents between freight vehicles and bicycles, with a focus on urban areas. <i>Transportation Research Procedia</i> , 2017, 25, 999-1007.	0.8	28
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154	Macro-spatial approach for evaluating the impact of socio-economics, land use, built environment, and road facility on pedestrian safety. <i>Canadian Journal of Civil Engineering</i> , 2017, 44, 1036-1044.	0.7	27
155	Multivariate space-time modeling of crash frequencies by injury severity levels. <i>Analytic Methods in Accident Research</i> , 2017, 15, 29-40.	4.7	81
156	Semi-autonomous vehicle motor insurance: A Bayesian Network risk transfer approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 82, 124-137.	3.9	34
157	Simultaneous estimation of discrete outcome and continuous dependent variable equations: A bivariate random effects modeling approach with unrestricted instruments. <i>Analytic Methods in Accident Research</i> , 2017, 16, 23-34.	4.7	33
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