

Simon P Washington

List of Publications by Year in descending order

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134
papers

9,009
citations

44042

48
h-index

49868

87
g-index

135
all docs

135
docs citations

135
times ranked

5410
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical delay factors in power transmission projects: a structural equation modeling approach. <i>International Journal of Construction Management</i> , 2022, 22, 1158-1170.	2.2	4
2	How many are enough?: Investigating the effectiveness of multiple conflict indicators for crash frequency-by-severity estimation by automated traffic conflict analysis. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 138, 103653.	3.9	30
3	Transferability of multivariate extreme value models for safety assessment by applying artificial intelligence-based video analytics. <i>Accident Analysis and Prevention</i> , 2022, 170, 106644.	3.0	13
4	A comprehensive analysis on the effects of signal strategies, intersection geometry, and traffic operation factors on right-turn crashes at signalised intersections: An application of hierarchical crash frequency model. <i>Accident Analysis and Prevention</i> , 2022, 171, 106663.	3.0	5
5	A systematic mapping review of surrogate safety assessment using traffic conflict techniques. <i>Accident Analysis and Prevention</i> , 2021, 153, 106016.	3.0	105
6	CLACD: A complete Lane-Changing decision modeling framework for the connected and traditional environments. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 128, 103162.	3.9	41
7	A bivariate extreme value model for estimating crash frequency by severity using traffic conflicts. <i>Analytic Methods in Accident Research</i> , 2021, 32, 100180.	4.7	30
8	A systematic review of traffic conflict-based safety measures with a focus on application context. <i>Analytic Methods in Accident Research</i> , 2021, 32, 100185.	4.7	40
9	Short-Term Traffic Flow Forecasting: A Component-Wise Gradient Boosting Approach With Hierarchical Reconciliation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 5060-5072.	4.7	9
10	A bivariate random effects spatial model of traffic fatalities and injuries across Provinces of Iran. <i>Accident Analysis and Prevention</i> , 2020, 136, 105394.	3.0	9
11	Preference heterogeneity in mode choice for car-sharing and shared automated vehicles. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 132, 633-650.	2.0	33
12	Using digital technologies to deliver scenarios to geographically dispersed stakeholders: Lessons learned from the transportation sector. <i>Futures</i> , 2020, 120, 102567.	1.4	5
13	Detecting, analysing, and modelling failed lane-changing attempts in traditional and connected environments. <i>Analytic Methods in Accident Research</i> , 2020, 28, 100138.	4.7	17
14	Examining the impact of car-sharing on private vehicle ownership. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 138, 322-341.	2.0	29
15	Applying a joint model of crash count and crash severity to identify road segments with high risk of fatal and serious injury crashes. <i>Accident Analysis and Prevention</i> , 2020, 144, 105615.	3.0	38
16	Understanding the discretionary lane-changing behaviour in the connected environment. <i>Accident Analysis and Prevention</i> , 2020, 137, 105463.	3.0	56
17	A comparative analysis of road safety across the provinces of Iran from 2005 to 2015. <i>International Journal of Sustainable Transportation</i> , 2020, 15, 131-139.	2.1	6
18	A hazard-based duration model to quantify the impact of connected driving environment on safety during mandatory lane-changing. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 106, 113-131.	3.9	75

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19	Do Differences in Social Environments Explain Gender Differences in Recreational Walking across Neighbourhoods?. International Journal of Environmental Research and Public Health, 2019, 16, 1980.	1.2	7
20	Contrasting case-wise deletion with multiple imputation and latent variable approaches to dealing with missing observations in count regression models. Analytic Methods in Accident Research, 2019, 24, 100104.	4.7	18
21	Long-term forecasts for energy commodities price: What the experts think. Energy Economics, 2019, 84, 104484.	5.6	11
22	Incorporating behavioral variables into crash count prediction by severity: A multivariate multiple risk source approach. Accident Analysis and Prevention, 2019, 129, 277-288.	3.0	23
23	Effects of globally obtained informative priors on bayesian safety performance functions developed for Australian crash data. Accident Analysis and Prevention, 2019, 129, 55-65.	3.0	24
24	The Impact of Different Incentive Policies on Hybrid Electric Vehicle Demand and Price: An International Comparison. World Electric Vehicle Journal, 2019, 10, 20.	1.6	11
25	Using walkability measures to identify train stations with the potential to become transit oriented developments located in walkable neighbourhoods. Journal of Transport Geography, 2019, 76, 221-231.	2.3	37
26	Physical activity-related health and economic benefits of building walkable neighbourhoods: a modelled comparison between brownfield and greenfield developments. International Journal of Behavioral Nutrition and Physical Activity, 2019, 16, 11.	2.0	22
27	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.	3.9	89
28	The potential for walkability to narrow neighbourhood socioeconomic inequalities in physical function: A case study of middle-aged to older adults in Brisbane, Australia. Health and Place, 2019, 56, 99-105.	1.5	8
29	â€œMate! Iâ€™m running 10â€™min lateâ€ An investigation into the self-regulation of mobile phone tasks while driving. Accident Analysis and Prevention, 2019, 122, 134-142.	3.0	58
30	A comprehensive joint econometric model of motor vehicle crashes arising from multiple sources of risk. Analytic Methods in Accident Research, 2018, 18, 1-14.	4.7	34
31	Chapter 16. Detecting High-Risk Accident Locations. Transport and Sustainability, 2018, , 351-382.	0.2	3
32	Do differences in built environments explain age differences in transport walking across neighbourhoods?. Journal of Transport and Health, 2018, 9, 83-95.	1.1	31
33	Thinking together about the future when you are not together: The effectiveness of using developed scenarios among geographically distributed groups. Technological Forecasting and Social Change, 2018, 133, 206-219.	6.2	3
34	Applying fractional split model to examine the effects of roadway geometric and traffic characteristics on speeding behavior. Traffic Injury Prevention, 2018, 19, 860-866.	0.6	30
35	User satisfaction with train fares: A comparative analysis in five Australian cities. PLoS ONE, 2018, 13, e0199449.	1.1	9
36	Should I Text or Call Here? A Situationâ€Based Analysis of Driversâ€™ Perceived Likelihood of Engaging in Mobile Phone Multitasking. Risk Analysis, 2018, 38, 2144-2160.	1.5	57

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37	Self-regulation of driving speed among distracted drivers: An application of driver behavioral adaptation theory. <i>Traffic Injury Prevention</i> , 2017, 18, 599-605.	0.6	53
38	Injury severity of pedestrians involved in road traffic crashes in Addis Ababa, Ethiopia. <i>Journal of Transportation Safety and Security</i> , 2017, 9, 47-66.	1.1	38
39	Effects of road infrastructure and traffic complexity in speed adaptation behaviour of distracted drivers. <i>Accident Analysis and Prevention</i> , 2017, 101, 67-77.	3.0	117
40	Projected prevalence of car-sharing in four Asian-Pacific countries in 2030: What the experts think. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 84, 158-177.	3.9	34
41	Understanding the mechanism of traffic hysteresis and traffic oscillations through the change in task difficulty level. <i>Transportation Research Part B: Methodological</i> , 2017, 105, 523-538.	2.8	49
42	Risk factors of mobile phone use while driving in Queensland: Prevalence, attitudes, crash risk perception, and task-management strategies. <i>PLoS ONE</i> , 2017, 12, e0183361.	1.1	103
43	Bayesian Latent Class Safety Performance Function for Identifying Motor Vehicle Crash Black Spots. <i>Transportation Research Record</i> , 2016, 2601, 90-98.	1.0	23
44	Gap Acceptance Behavior of Mobile Phone-“Distracted Drivers at Roundabouts. <i>Transportation Research Record</i> , 2016, 2602, 43-51.	1.0	45
45	Gender and age differences in walking for transport and recreation: Are the relationships the same in all neighborhoods?. <i>Preventive Medicine Reports</i> , 2016, 4, 75-80.	0.8	48
46	Neighborhood disadvantage, individual-level socioeconomic position and physical function: A cross-sectional multilevel analysis. <i>Preventive Medicine</i> , 2016, 89, 112-120.	1.6	27
47	Preference heterogeneity in mode choice based on a nationwide survey with a focus on urban rail. <i>Transportation Research, Part A: Policy and Practice</i> , 2016, 91, 178-194.	2.0	23
48	Reprint of: Modelling the impact of traffic incidents on travel time reliability. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 70, 86-97.	3.9	28
49	Understanding the impacts of mobile phone distraction on driving performance: A systematic review. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 72, 360-380.	3.9	198
50	Determinants of residential dissonance: Implications for transit-oriented development in Brisbane. <i>International Journal of Sustainable Transportation</i> , 2016, 10, 960-974.	2.1	29
51	Decisions and actions of distracted drivers at the onset of yellow lights. <i>Accident Analysis and Prevention</i> , 2016, 96, 290-299.	3.0	50
52	Built environment impacts on walking for transport in Brisbane, Australia. <i>Transportation</i> , 2016, 43, 53-77.	2.1	67
53	Modelling the impact of traffic incidents on travel time reliability. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 65, 49-60.	3.9	23
54	Investigating Pedestrian Injury Crashes on Modern Roundabouts in Addis Ababa, Ethiopia. <i>Transportation Research Record</i> , 2015, 2512, 1-10.	1.0	7

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55	Impact of mobile phone use on car-following behaviour of young drivers. Accident Analysis and Prevention, 2015, 82, 10-19.	3.0	104
56	Bikeshare's impact on active travel: Evidence from the United States, Great Britain, and Australia. Journal of Transport and Health, 2015, 2, 135-142.	1.1	81
57	Shortest path and vehicle trajectory aided map-matching for low frequency GPS data. Transportation Research Part C: Emerging Technologies, 2015, 55, 328-339.	3.9	150
58	Impact of real-time traffic characteristics on freeway crash occurrence: Systematic review and meta-analysis. Accident Analysis and Prevention, 2015, 79, 198-211.	3.0	107
59	Investigation of pedestrian crashes on two-way two-lane rural roads in Ethiopia. Accident Analysis and Prevention, 2015, 78, 118-126.	3.0	50
60	Transitioning to energy efficient vehicles: An analysis of the potential rebound effects and subsequent impact upon emissions. Transportation Research, Part A: Policy and Practice, 2015, 74, 250-267.	2.0	8
61	Associations between individual socioeconomic position, neighbourhood disadvantage and transport mode: baseline results from the HABITAT multilevel study. Journal of Epidemiology and Community Health, 2015, 69, 1217-1223.	2.0	55
62	Revisiting the Task's Capability Interface model for incorporating human factors into car-following models. Transportation Research Part B: Methodological, 2015, 82, 1-19.	2.8	87
63	The impact of mobile phone distraction on the braking behaviour of young drivers: A hazard-based duration model. Transportation Research Part C: Emerging Technologies, 2015, 50, 13-27.	3.9	136
64	Factors influencing bike share membership: An analysis of Melbourne and Brisbane. Transportation Research, Part A: Policy and Practice, 2015, 71, 17-30.	2.0	146
65	Bayesian imputation of non-chosen attribute values in revealed preference surveys. Journal of Advanced Transportation, 2014, 48, 48-65.	0.9	7
66	Analysis of Distance Learner Value Assessment of Distance Education in Engineering. Journal of Professional Issues in Engineering Education and Practice, 2014, 140, 04013001.	0.9	6
67	A parametric duration model of the reaction times of drivers distracted by mobile phone conversations. Accident Analysis and Prevention, 2014, 62, 42-53.	3.0	134
68	The impact of a congestion pricing exemption on the demand for new energy efficient vehicles in Stockholm. Transportation Research, Part A: Policy and Practice, 2014, 70, 24-40.	2.0	21
69	Barriers to bikesharing: an analysis from Melbourne and Brisbane. Journal of Transport Geography, 2014, 41, 325-337.	2.3	176
70	Modelling total duration of traffic incidents including incident detection and recovery time. Accident Analysis and Prevention, 2014, 71, 296-305.	3.0	77
71	Applying quantile regression for modeling equivalent property damage only crashes to identify accident blackspots. Accident Analysis and Prevention, 2014, 66, 136-146.	3.0	66
72	Australian baby boomers switched to more environment friendly modes of transport during the global financial crisis. International Journal of Environmental Science and Technology, 2014, 11, 2133-2144.	1.8	19

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73	Bike share's impact on car use: Evidence from the United States, Great Britain, and Australia. Transportation Research, Part D: Transport and Environment, 2014, 31, 13-20.	3.2	356
74	Advance transit oriented development typology: case study in Brisbane, Australia. Journal of Transport Geography, 2014, 34, 54-70.	2.3	222
75	Analysis of Traffic Injury Severity in Dhaka, Bangladesh. Transportation Research Record, 2014, 2451, 121-130.	1.0	25
76	A Methodology for Estimating Exposure-controlled Crash Risk Using Traffic Police Crash Data. Procedia, Social and Behavioral Sciences, 2013, 104, 972-981.	0.5	5
77	Hazard based models for freeway traffic incident duration. Accident Analysis and Prevention, 2013, 52, 171-181.	3.0	138
78	Residential dissonance and mode choice. Journal of Transport Geography, 2013, 33, 12-28.	2.3	75
79	Bike Share: A Synthesis of the Literature. Transport Reviews, 2013, 33, 148-165.	4.7	516
80	Does Residential Dissonance Affect Residential Mobility?. Transportation Research Record, 2013, 2344, 59-67.	1.0	18
81	Importance of a Resilient Air Services Network to Australian Remote, Rural, and Regional Communities. Transportation Research Record, 2012, 2300, 155-161.	1.0	0
82	Empirical Bayes method in the study of traffic safety via heterogeneous negative multinomial model. Transportmetrica, 2012, 8, 131-147.	1.8	20
83	On selecting an optimal wavelet for detecting singularities in traffic and vehicular data. Transportation Research Part C: Emerging Technologies, 2012, 25, 18-33.	3.9	50
84	Attribute exclusion strategies in airline choice: accounting for exogenous information on decision maker processing strategies in models of discrete choice. Transportmetrica, 2012, 8, 344-360.	1.8	20
85	On the significance of omitted variables in intersection crash modeling. Accident Analysis and Prevention, 2012, 49, 439-448.	3.0	84
86	Barriers and facilitators to public bicycle scheme use: A qualitative approach. Transportation Research Part F: Traffic Psychology and Behaviour, 2012, 15, 686-698.	1.8	236
87	Relationships between Self-Reported Bicycling Injuries and Perceived Risk of Cyclists in Queensland, Australia. Transportation Research Record, 2012, 2314, 57-65.	1.0	23
88	European advanced driver training programs: Reasons for optimism. IATSS Research, 2011, 34, 72-79.	1.8	19
89	Proactive detection of high collision concentration locations on highways. Transportation Research, Part A: Policy and Practice, 2011, 45, 927-934.	2.0	11
90	Proactive detection of high collision concentration locations on highways. Procedia, Social and Behavioral Sciences, 2011, 17, 634-645.	0.5	3

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91	How automated speed enforcement may reduce travel time variability and result in travel time savings: The case study of the loop 101 speed enforcement program in Scottsdale, Arizona. KSCE Journal of Civil Engineering, 2011, 15, 167-174.	0.9	0
92	Visual assessment of pedestrian crashes. Accident Analysis and Prevention, 2011, 43, 301-306.	3.0	27
93	Identifying Large Truck Hot Spots Using Crash Counts and PDOEs. Journal of Transportation Engineering, 2011, 137, 11-21.	0.9	15
94	Property Damage Crash Equivalency Factors to Solve Crash Frequencyâ€“Severity Dilemma: Case Study on South Korean Rural Roads. Transportation Research Record, 2010, 2148, 83-92.	1.0	25
95	Predicting Single-Vehicle Fatal Crashes for Two-Lane Rural Highways in Southeastern United States. Transportation Research Record, 2010, 2147, 88-96.	1.0	15
96	Expected Safety Performance of Rural Signalized Intersections in South Korea. Transportation Research Record, 2009, 2114, 72-82.	1.0	9
97	Framework for Measuring Corporate Safety Culture and Its Impact on Construction Safety Performance. Journal of Construction Engineering and Management - ASCE, 2009, 135, 488-496.	2.0	114
98	Evaluation of the Scottsdale Loop 101 automated speed enforcement demonstration program. Accident Analysis and Prevention, 2009, 41, 393-403.	3.0	58
99	A simultaneous equations model of crash frequency by collision type for rural intersections. Safety Science, 2009, 47, 443-452.	2.6	134
100	Examination of relationships between urban form, household activities, and time allocation in the Atlanta Metropolitan Region. Transportation Research, Part A: Policy and Practice, 2009, 43, 360-373.	2.0	25
101	Bayesian Multinomial Logit. Transportation Research Record, 2009, 2136, 28-36.	1.0	13
102	Differences in the Performance of Safety Performance Functions Estimated for Total Crash Count and for Crash Count by Crash Type. Transportation Research Record, 2009, 2102, 115-123.	1.0	22
103	Use of Expert Panels in Highway Safety. Transportation Research Record, 2009, 2102, 101-107.	1.0	9
104	New Criteria for Evaluating Methods of Identifying Hot Spots. Transportation Research Record, 2008, 2083, 76-85.	1.0	136
105	Effects of Transportation Accessibility on Residential Property Values. Transportation Research Record, 2007, 1994, 66-73.	1.0	28
106	Household type and structure, time-use pattern, and trip-chaining behavior. Transportation Research, Part A: Policy and Practice, 2007, 41, 1004-1020.	2.0	40
107	Modeling crash outcome probabilities at rural intersections: Application of hierarchical binomial logistic models. Accident Analysis and Prevention, 2007, 39, 125-134.	3.0	162
108	On the nature of over-dispersion in motor vehicle crash prediction models. Accident Analysis and Prevention, 2007, 39, 459-468.	3.0	189

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109	Further notes on the application of zero-inflated models in highway safety. Accident Analysis and Prevention, 2007, 39, 53-57.	3.0	177
110	The impact of red light cameras on safety in Arizona. Accident Analysis and Prevention, 2007, 39, 1212-1221.	3.0	61
111	Modeling Crash Types: New Insights into the Effects of Covariates on Crashes at Rural Intersections. Journal of Transportation Engineering, 2006, 132, 282-292.	0.9	76
112	The significance of endogeneity problems in crash models: An examination of left-turn lanes in intersection crash models. Accident Analysis and Prevention, 2006, 38, 1094-1100.	3.0	88
113	Bayesian methodology incorporating expert judgment for ranking countermeasure effectiveness under uncertainty: Example applied to at grade railroad crossings in Korea. Accident Analysis and Prevention, 2006, 38, 234-247.	3.0	46
114	Accident prediction model for railway-highway interfaces. Accident Analysis and Prevention, 2006, 38, 346-356.	3.0	164
115	Poisson, Poisson-gamma and zero-inflated regression models of motor vehicle crashes: balancing statistical fit and theory. Accident Analysis and Prevention, 2005, 37, 35-46.	3.0	601
116	Experimental evaluation of hotspot identification methods. Accident Analysis and Prevention, 2005, 37, 870-881.	3.0	229
117	Development of Accident Prediction Models for Rural Highway Intersections. Transportation Research Record, 2004, 1897, 18-27.	1.0	48
118	Forecasting Crashes at the Planning Level: Simultaneous Negative Binomial Crash Model Applied in Tucson, Arizona. Transportation Research Record, 2004, 1897, 191-199.	1.0	175
119	Validation of FHWA Crash Models for Rural Intersections: Lessons Learned. Transportation Research Record, 2003, 1840, 41-49.	1.0	103
120	Empirical Investigation of Interactive Highway Safety Design Model Accident Prediction Algorithm: Rural Intersections. Transportation Research Record, 2003, 1840, 78-86.	1.0	33
121	Safety-Restraint Use Rate as Function of Law Enforcement and Other Factors: Preliminary Analysis. Transportation Research Record, 2001, 1779, 109-115.	1.0	6
122	Feasibility of "Subjective" Engineering Assessments of Road Safety Improvements: Bayesian Analysis Development. Transportation Research Record, 2001, 1758, 36-43.	1.0	7
123	Structural Equation Model of Construction Contract Dispute Potential. Journal of Construction Engineering and Management - ASCE, 2000, 126, 268-277.	2.0	206
124	Iteratively Specified Tree-Based Regression: Theory and Trip Generation Example. Journal of Transportation Engineering, 2000, 126, 482-491.	0.9	18
125	Forecasting Dynamic Vehicular Activity on Freeways: Bridging the Gap Between Travel Demand and Emerging Emissions Models. Transportation Research Record, 1999, 1664, 31-39.	1.0	8
126	Using Video Data To Measure Vehicle Operating Modes for Prediction of Emissions. Transportation Research Record, 1999, 1664, 21-30.	1.0	2

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127	An inter-regional comparison: fatal crashes in the southeastern and non-southeastern United States: preliminary findings. Accident Analysis and Prevention, 1999, 31, 135-146.	3.0	34
128	A statistical model for estimating oxides of nitrogen emissions from light duty motor vehicles. Transportation Research, Part D: Transport and Environment, 1999, 4, 333-352.	3.2	32
129	Conducting Statistical Tests of Hypotheses: Five Common Misconceptions Found in Transportation Research. Transportation Research Record, 1999, 1665, 1-6.	1.0	2
130	Forecasting vehicle modes of operation needed as input to "modal" emissions models. International Journal of Vehicle Design, 1998, 20, 351.	0.1	3
131	High-Emitting Vehicle Characterization Using Regression Tree Analysis. Transportation Research Record, 1998, 1641, 58-65.	1.0	14
132	Hierarchical Tree-Based Versus Ordinary Least Squares Linear Regression Models: Theory and Example Applied to Trip Generation. Transportation Research Record, 1997, 1581, 82-88.	1.0	24
133	Binary Recursive Partitioning Method for Modeling Hot-Stabilized Emissions From Motor Vehicles. Transportation Research Record, 1997, 1587, 96-105.	1.0	17
134	Statistical and Econometric Methods for Transportation Data Analysis. , 0, , .		580