Xuesong Wang

List of Publications by Year
in descending order

139 papers	4,692 citations	94433 37 h-index	123424 61 g-index
140 all docs	140 docs citations	140 times ranked	2873 citing authors

#	Article	IF	Citations
1	Analyzing single-vehicle and multi-vehicle freeway crashes with unobserved heterogeneity. Journal of Transportation Safety and Security, 2023, 15, 59-81.	1.6	5
2	Distributed resource allocation algorithm for second-order multi-agent systems with external disturbances. International Journal of Control, 2023, 96, 2181-2189.	1.9	5
3	An empirical investigation of the factors contributing to local-vehicle and non-local-vehicle crashes on freeway. Journal of Transportation Safety and Security, 2022, 14, 323-337.	1.6	14
4	Minimum Adversarial Distribution Discrepancy for Domain Adaptation. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1440-1448.	3.8	1
5	Few-shot learning with deep balanced network and acceleration strategy. International Journal of Machine Learning and Cybernetics, 2022, 13, 133-144.	3.6	3
6	Effect of daily car-following behaviors on urban roadway rear-end crashes and near-crashes: A naturalistic driving study. Accident Analysis and Prevention, 2022, 164, 106502.	5.7	13
7	Transferability of Urban Arterial Safety Performance Functions between Shanghai and Guangzhou, China. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	1.4	0
8	Hyperspectral Image Classification Based on Domain Adversarial Broad Adaptation Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	10
9	Towards human-like speed control in autonomous vehicles: A mountainous freeway case. Accident Analysis and Prevention, 2022, 166, 106566.	5.7	6
10	PM2.5 and O3 relationships affected by the atmospheric oxidizing capacity in the Yangtze River Delta, China. Science of the Total Environment, 2022, 810, 152268.	8.0	28
11	Frequency-Domain Energy-Concentrated Synchrosqueezing Transform for Frequency-Varying Signal With Linear Group Delay. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	4.7	4
12	Incremental learning paradigm with privileged information for random vector functional-link networks: IRVFL+. Neural Computing and Applications, 2022, 34, 6847-6859.	5.6	5
13	Driver distraction detection based on vehicle dynamics using naturalistic driving data. Transportation Research Part C: Emerging Technologies, 2022, 136, 103561.	7.6	32
14	A Magnetic Network Model and Harmonic Analysis of a Canned Switched Reluctance Machine. IEEE Transactions on Magnetics, 2022, 58, 1-8.	2.1	1
15	Operational design domain of automated vehicles for crossing maneuvers at two-way stop-controlled intersections. Accident Analysis and Prevention, 2022, 167, 106575.	5.7	2
16	Distributed Fixed-Time Resource Allocation Algorithm for the General Linear Multi-Agent Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2867-2871.	3.0	13
17	Automated Vehicle Failure: The First Pedestrian Fatality and Public Perception. Transportation Research Record, 2022, 2676, 198-208.	1.9	2
18	Safety assessment of trucks based on GPS and in-vehicle monitoring data. Accident Analysis and Prevention, 2022, 168, 106619.	5.7	8

#	Article	IF	Citations
19	Hotspot identification on urban arterials at the meso level. Accident Analysis and Prevention, 2022, 169, 106632.	5.7	3
20	Dual U-Net residual networks for cardiac magnetic resonance images super-resolution. Computer Methods and Programs in Biomedicine, 2022, 218, 106707.	4.7	19
21	End-to-end residual attention mechanism for cataractous retinal image dehazing. Computer Methods and Programs in Biomedicine, 2022, 219, 106779.	4.7	6
22	A Convolutional Neural Network Particle Filter for UUV Target State Estimation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	4
23	Calibrating and Comparing Autonomous Braking Systems in Motorized-to-Non-Motorized-Vehicle Conflict Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20636-20651.	8.0	6
24	Role of the Rigid Host Structure in Narrow-Band Green Emission of Eu^{2+} in $Rb_2Na_2(Li_3SiO_4)_4$: Insights into Electron–Phonon Coupling. Inorganic Chemistry, 2022, 61, 7617-7623.	4.0	5
25	Deep Convolutional Network Based on Interleaved Fusion Group. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 555-565.	3.8	4
26	Multiscale Multipath Ensemble Convolutional Neural Network. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5918-5928.	9.3	6
27	Investigating vehicle roadway usage patterns on the Shanghai urban expressway system and their impacts on traffic safety. International Journal of Sustainable Transportation, 2021, 15, 217-228.	4.1	5
28	Cross-regional transport of PM2.5 nitrate in the Pearl River Delta, China: Contributions and mechanisms. Science of the Total Environment, 2021, 753, 142439.	8.0	18
29	A Post-Processing Method for Time-Reassigned Multisynchrosqueezing Transform and Its Application in Processing the Strong Frequency-Varying Signal. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	12
30	Progressive U-Net residual network for computed tomography images super-resolution in the screening of COVID-19. Journal of Radiation Research and Applied Sciences, 2021, 14, 369-379.	1.2	10
31	Calibration and evaluation of the Responsibility-Sensitive Safety model of autonomous car-following maneuvers using naturalistic driving study data. Transportation Research Part C: Emerging Technologies, 2021, 123, 102988.	7.6	37
32	Multi-window back-projection residual networks for reconstructing COVID-19 CT super-resolution images. Computer Methods and Programs in Biomedicine, 2021, 200, 105934.	4.7	23
33	Transferability analysis of the freeway continuous speed model. Accident Analysis and Prevention, 2021, 151, 105944.	5.7	8
34	Calibration and evaluation of responsibility-sensitive safety (RSS) in automated vehicle performance during cut-in scenarios. Transportation Research Part C: Emerging Technologies, 2021, 125, 103037.	7.6	47
35	Analysis of safety climate and individual factors affecting bus drivers' crash involvement using a two-level logit model. Accident Analysis and Prevention, 2021, 154, 106087.	5.7	13
36	Meso-level hotspot identification for suburban arterials. Accident Analysis and Prevention, 2021, 156, 106148.	5.7	4

#	Article	IF	Citations
37	Applying a Bayesian multivariate spatio-temporal interaction model based approach to rank sites with promise using severity-weighted decision parameters. Accident Analysis and Prevention, 2021, 157, 106190.	5.7	12
38	Cardiac Magnetic Resonance Images Superresolution via Multichannel Residual Attention Networks. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-8.	1.3	1
39	Multi-Stage Convolutional Broad Learning with Block Diagonal Constraint for Hyperspectral Image Classification. Remote Sensing, 2021, 13, 3412.	4.0	2
40	Crash comparison of autonomous and conventional vehicles using pre-crash scenario typology. Accident Analysis and Prevention, 2021, 159, 106281.	5.7	38
41	Gradual back-projection residual attention network for magnetic resonance image super-resolution. Computer Methods and Programs in Biomedicine, 2021, 208, 106252.	4.7	21
42	Influence of familiarity with traffic regulations on delivery riders' e-bike crashes and helmet use: Two mediator ordered logit models. Accident Analysis and Prevention, 2021, 159, 106277.	5.7	26
43	Applicability of boosting techniques in calibrating safety performance functions for freeways. Accident Analysis and Prevention, 2021, 159, 106193.	5.7	11
44	Operational design domain of autonomous vehicles at skewed intersection. Accident Analysis and Prevention, 2021, 159, 106241.	5.7	17
45	Feasibility study of highway alignment design controls for autonomous vehicles. Accident Analysis and Prevention, 2021, 159, 106252.	5.7	8
46	Macrolevel Traffic Safety Longitudinal Comparison in Shanghai, China. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	1.4	2
47	Modeling Car-Following Behavior on Freeways Considering Driving Style. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	1.4	18
48	Semisupervised Classification of Hyperspectral Image Based on Graph Convolutional Broad Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2995-3005.	4.9	15
49	Exploring Intrinsic Electron-Trapping Centers for Persistent Luminescence in Bi^{3+}-Doped $LiREGeO_4$ (RE = Y, Sc, Lu): Mechanistic Origin from First-Principles Calculations. Inorganic Chemistry, 2021, 60, 16604-16613.	4.0	27
50	An accelerated distributed optimization algorithm over time-varying digraphs with column-stochastic matrices. , 2021, , .		0
51	A distributed continuous-time algorithm for economic dispatch problem. , 2021, , .		1
52	Impact on car following behavior of a forward collision warning system with headway monitoring. Transportation Research Part C: Emerging Technologies, 2020, 111, 226-244.	7.6	51
53	Growth and respiratory metabolic adaptation strategies of riparian plant Distylium chinense to submergence by the field study and controlled experiments. Plant Physiology and Biochemistry, 2020, 157, 1-12.	5.8	11
54	Evaluation and Optimization of Responsibility-Sensitive Safety Models on Autonomous Car-Following Maneuvers. Transportation Research Record, 2020, 2674, 662-673.	1.9	13

#	Article	IF	Citations
55	Characteristics of driver cell phone use and their influence on driving performance: A naturalistic driving study. Accident Analysis and Prevention, 2020, 148, 105845.	5.7	14
56	Improving the transferability of the crash prediction model using the TrAdaBoost.R2 algorithm. Accident Analysis and Prevention, 2020, 141, 105551.	5.7	28
57	Modeling speed profiles on mountainous freeways using high resolution data. Transportation Research Part C: Emerging Technologies, 2020, 117, 102679.	7.6	7
58	Transferability of safety performance functions and hotspot identification for freeways of the United States and China. Accident Analysis and Prevention, 2020, 139, 105493.	5.7	14
59	Safe, efficient, and comfortable velocity control based on reinforcement learning for autonomous driving. Transportation Research Part C: Emerging Technologies, 2020, 117, 102662.	7.6	173
60	Drifted Twitter Spam Classification Using Multiscale Detection Test on K-L Divergence. IEEE Access, 2019, 7, 108384-108394.	4.2	30
61	A Generative Adversarial Distribution Matching Framework for Visual Domain Adaptation. , 2019, , .		2
62	Freeway single and multi-vehicle crash safety analysis: Influencing factors and hotspots. Accident Analysis and Prevention, 2019, 132, 105268.	5.7	27
63	Analysis of cut-in behavior based on naturalistic driving data. Accident Analysis and Prevention, 2019, 124, 127-137.	5.7	71
64	Examining lane change gap acceptance, duration and impact using naturalistic driving data. Transportation Research Part C: Emerging Technologies, 2019, 104, 317-331.	7.6	100
65	Combined alignment effects on deceleration and acceleration: A driving simulator study. Transportation Research Part C: Emerging Technologies, 2019, 104, 172-183.	7.6	25
66	Assessing the relationship between self-reported driving behaviors and driver risk using a naturalistic driving study. Accident Analysis and Prevention, 2019, 128, 8-16.	5.7	54
67	Macro-level traffic safety analysis in Shanghai, China. Accident Analysis and Prevention, 2019, 125, 249-256.	5.7	43
68	Calibrating Car-Following Models on Freeway Based on Naturalistic Driving Study. , 2019, , .		0
69	Effect of Combined Horizontal and Vertical Curve on Vehicle Longitudinal Acceleration of Mountainous Freeway. , 2019, , .		1
70	Safety Evaluation of Responsibility-Sensitive Safety (RSS) on Autonomous Car-Following Maneuvers Based on Surrogate Safety Measurements. , 2019, , .		16
71	Exploring the impacts of speed variances on safety performance of urban elevated expressways using GPS data. Accident Analysis and Prevention, 2019, 123, 29-38.	5.7	21
72	Analysis and comparison of safety models using average daily, average hourly, and microscopic traffic. Accident Analysis and Prevention, 2018, 111, 271-279.	5.7	17

#	Article	IF	Citations
73	How to determine an optimal threshold to classify real-time crash-prone traffic conditions?. Accident Analysis and Prevention, 2018, 117, 250-261.	5.7	24
74	Evaluating the effectiveness of Behavior-Based Safety education methods for commercial vehicle drivers. Accident Analysis and Prevention, 2018, 117, 114-120.	5.7	26
75	Investigating the safety impact of roadway network features of suburban arterials in Shanghai. Accident Analysis and Prevention, 2018, 113, 137-148.	5.7	39
76	Speed, speed variation and crash relationships for urban arterials. Accident Analysis and Prevention, 2018, 113, 236-243.	5.7	71
77	Impact of combined alignments on lane departure: A simulator study for mountainous freeways. Transportation Research Part C: Emerging Technologies, 2018, 86, 346-359.	7.6	29
78	Driver Identification Based on Stop-and-Go Events Using Naturalistic Driving Data. , 2018, , .		1
79	A Multiscale Concept Drift Detection Method for Learning from Data Streams. , 2018, , .		6
80	Expressway Crash Prediction based on Traffic Big Data. , 2018, , .		8
81	A visual domain adaptation method based on enhanced subspace distribution matching. , 2018, , .		5
82	Speeding Behavior Estimation Using Stop-and-Go Events Based on Velocity Data. , 2018, , .		0
83	Human-like autonomous car-following model with deep reinforcement learning. Transportation Research Part C: Emerging Technologies, 2018, 97, 348-368.	7.6	284
84	A Bayesian dynamic updating approach for urban expressway real-time crash risk evaluation. Transportation Research Part C: Emerging Technologies, 2018, 96, 192-207.	7.6	54
85	Human-like Autonomous Vehicle Speed Control by Deep Reinforcement Learning with Double Q-Learning. , 2018, , .		69
86	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
87	Impact of data aggregation approaches on the relationships between operating speed and traffic safety. Accident Analysis and Prevention, 2018, 120, 304-310.	5.7	74
88	Research on Automated Modeling Algorithm Using Association Rules for Traffic Accidents. , 2018, , .		8
89	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
90	Modeling car-following behavior on urban expressways in Shanghai: A naturalistic driving study. Transportation Research Part C: Emerging Technologies, 2018, 93, 425-445.	7.6	164

#	Article	IF	Citations
91	Speed change behavior on combined horizontal and vertical curves: driving simulator-based analysis. Accident Analysis and Prevention, 2018, 119, 215-224.	5.7	32
92	Level-Change Stackelberg Games Model for the Combined Traffic Assignmentâ€"Signal Control Equilibrium on Networks. Transportation Research Record, 2018, 2672, 24-35.	1.9	1
93	Exploring the Effect of Different Neighboring Structures on Spatial Hierarchical Joint Crash Frequency Models. Transportation Research Record, 2018, 2672, 210-222.	1.9	8
94	A Hybrid Latent Class Analysis Modeling Approach to Analyze Urban Expressway Crash Risk. Accident Analysis and Prevention, 2017, 101, 37-43.	5.7	36
95	Safety evaluation of driver cognitive failures and driving errors on right-turn filtering movement at signalized road intersections based on Fuzzy Cellular Automata (FCA) model. Accident Analysis and Prevention, 2017, 104, 156-164.	5.7	23
96	Classifying road network patterns using multinomial logit model. Journal of Transport Geography, 2017, 58, 104-112.	5.0	29
97	Safety analysis of urban arterials at the meso level. Accident Analysis and Prevention, 2017, 108, 100-111.	5.7	23
98	A hybrid approach for urban expressway traffic incident duration prediction with Cox regression and random survival forests models. , 2017, , .		4
99	Utilizing latent class logit model to predict crash risk. , 2017, , .		6
100	Factors contributing to commercial vehicle rear-end conflicts in China: A study using on-board event data recorders. Journal of Safety Research, 2017, 62, 143-153.	3.6	21
101	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
102	A Vehicle Stability Study of Combined Alignments on Mountainous Freeways: A Driving Simulator-Based Approach. , 2016, , .		2
103	Speed variation during peak and off-peak hours on urban arterials in Shanghai. Transportation Research Part C: Emerging Technologies, 2016, 67, 84-94.	7.6	37
104	Development of a Kinematic-Based Forward Collision Warning Algorithm Using an Advanced Driving Simulator. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2583-2591.	8.0	54
105	Driversâ€™ rear end collision avoidance behaviors under different levels of situational urgency. Transportation Research Part C: Emerging Technologies, 2016, 71, 419-433.	7.6	88
106	Traffic safety in China: Challenges and countermeasures. Accident Analysis and Prevention, 2016, 95, 305-307.	5.7	13
107	Macro-level safety analysis of pedestrian crashes in Shanghai, China. Accident Analysis and Prevention, 2016, 96, 12-21.	5.7	97
108	Crash risk analysis for Shanghai urban expressways: A Bayesian semi-parametric modeling approach. Accident Analysis and Prevention, 2016, 95, 495-502.	5.7	53

#	Article	IF	Citations
109	Driver drowsiness detection based on non-intrusive metrics considering individual specifics. Accident Analysis and Prevention, 2016, 95, 350-357.	5.7	115
110	The influence of combined alignments on lateral acceleration on mountainous freeways: a driving simulator study. Accident Analysis and Prevention, 2015, 76, 110-117.	5.7	59
111	Safety modeling of urban arterials in Shanghai, China. Accident Analysis and Prevention, 2015, 83, 57-66.	5.7	50
112	Exploring Operating Speeds on Urban Arterials Using Floating Car Data: Case Study in Shanghai. Journal of Transportation Engineering, 2014, 140, .	0.9	25
113	Systematic Approach to Hazardous-Intersection Identification and Countermeasure Development. Journal of Transportation Engineering, 2014, 140, 04014022.	0.9	19
114	Somatic embryogenesis from mature zygotic embryos of Distylium chinense (Fr.) Diels and assessment of genetic fidelity of regenerated plants by SRAP markers. Plant Growth Regulation, 2014, 74, 11-21.	3.4	12
115	Safety modeling of suburban arterials in Shanghai, China. Accident Analysis and Prevention, 2014, 70, 215-224.	5.7	23
116	Tandem synthesis of 3-allyl-chromones from alkynones and allylic alcohols under metal-free conditions. Chemical Communications, 2014, 50, 652-654.	4.1	45
117	A metal-free synthesis of diaryl-1,2-diketones by C–C triple bond cleavage of alkynones. Organic Chemistry Frontiers, 2014, 1, 1001-1004.	4.5	23
118	Crash frequency modeling for signalized intersections in a high-density urban road network. Analytic Methods in Accident Research, 2014, 2, 39-51.	8.2	73
119	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
120	Investigation of road network features and safety performance. Accident Analysis and Prevention, 2013, 56, 22-31.	5.7	45
121	Corridor-level signalized intersection safety analysis in Shanghai, China using Bayesian hierarchical models. Accident Analysis and Prevention, 2013, 50, 25-33.	5.7	114
122	Macrolevel Model Development for Safety Assessment of Road Network Structures. Transportation Research Record, 2012, 2280, 100-109.	1.9	41
123	Safety Analysis on Urban Arterials Considering Operational Conditions in Shanghai. Procedia Engineering, 2012, 45, 836-840.	1.2	6
124	Moped Rider Violation Behavior and Moped Safety at Intersections in China. Transportation Research Record, 2012, 2281, 83-91.	1.9	23
125	Centrality Characteristics of Road Network Patterns of Traffic Analysis Zones. Transportation Research Record, 2011, 2256, 16-24.	1.9	47
126	Integrating Trip and Roadway Characteristics to Manage Safety in Traffic Analysis Zones. Transportation Research Record, 2011, 2213, 20-28.	1.9	96

#	Article	IF	Citations
127	Modeling signalized intersection safety with corridor-level spatial correlations. Accident Analysis and Prevention, 2010, 42, 84-92.	5.7	187
128	Right-Angle Crash Injury Severity Analysis Using Ordered Probability Models. , 2010, , .		7
129	Safety Analysis of Urban Arterials under Mixed-Traffic Patterns in Beijing. Transportation Research Record, 2010, 2193, 105-115.	1.9	29
130	Multi-Level Analysis of Severe Crashes Along Arterials Including the Effect of Road Entity and Collision Type. Journal of Transportation Safety and Security, 2009, 1, 203-223.	1.6	4
131	Validating a driving simulator using surrogate safety measures. Accident Analysis and Prevention, 2008, 40, 274-288.	5.7	172
132	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
133	Modeling left-turn crash occurrence at signalized intersections by conflicting patterns. Accident Analysis and Prevention, 2008, 40, 76-88.	5.7	65
134	Investigation of Safety Influence Area for Four-Legged Signalized Intersections. Transportation Research Record, 2008, 2083, 86-95.	1.9	43
135	Right-Angle Crash Occurrence at Signalized Intersections. Transportation Research Record, 2007, 2019, 156-168.	1.9	31
136	Crash Estimation at Signalized Intersections along Corridors. Transportation Research Record, 2006, 1953, 98-111.	1.9	57
137	Temporal and spatial analyses of rear-end crashes at signalized intersections. Accident Analysis and Prevention, 2006, 38, 1137-1150.	5.7	183
138	Crash Estimation at Signalized Intersections Along Corridors: Analyzing Spatial Effect and Identifying Significant Factors. Transportation Research Record, 2006, 1953, 98-111.	1.9	41
139	Adaptive finite-time disturbance observer-based recursive fractional-order sliding mode control of redundantly actuated cable driving parallel robots under disturbances and input saturation. JVC/Journal of Vibration and Control, 0, , 107754632110514.	2.6	7