

Xuesong Wang

List of Publications by Year in descending order

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Version: 2024-02-01

139
papers

4,692
citations

116194

36
h-index

139680

61
g-index

140
all docs

140
docs citations

140
times ranked

3286
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing single-vehicle and multi-vehicle freeway crashes with unobserved heterogeneity. <i>Journal of Transportation Safety and Security</i> , 2023, 15, 59-81.	1.1	5
2	Distributed resource allocation algorithm for second-order multi-agent systems with external disturbances. <i>International Journal of Control</i> , 2023, 96, 2181-2189.	1.2	5
3	An empirical investigation of the factors contributing to local-vehicle and non-local-vehicle crashes on freeway. <i>Journal of Transportation Safety and Security</i> , 2022, 14, 323-337.	1.1	14
4	Minimum Adversarial Distribution Discrepancy for Domain Adaptation. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 1440-1448.	2.6	1
5	Few-shot learning with deep balanced network and acceleration strategy. <i>International Journal of Machine Learning and Cybernetics</i> , 2022, 13, 133-144.	2.3	3
6	Effect of daily car-following behaviors on urban roadway rear-end crashes and near-crashes: A naturalistic driving study. <i>Accident Analysis and Prevention</i> , 2022, 164, 106502.	3.0	13
7	Transferability of Urban Arterial Safety Performance Functions between Shanghai and Guangzhou, China. <i>Journal of Transportation Engineering Part A: Systems</i> , 2022, 148, .	0.8	0
8	Hyperspectral Image Classification Based on Domain Adversarial Broad Adaptation Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	2.7	10
9	Towards human-like speed control in autonomous vehicles: A mountainous freeway case. <i>Accident Analysis and Prevention</i> , 2022, 166, 106566.	3.0	6
10	PM2.5 and O3 relationships affected by the atmospheric oxidizing capacity in the Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2022, 810, 152268.	3.9	28
11	Frequency-Domain Energy-Concentrated Synchrosqueezing Transform for Frequency-Varying Signal With Linear Group Delay. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-15.	2.4	4
12	Incremental learning paradigm with privileged information for random vector functional-link networks: IRVFL+. <i>Neural Computing and Applications</i> , 2022, 34, 6847-6859.	3.2	5
13	Driver distraction detection based on vehicle dynamics using naturalistic driving data. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 136, 103561.	3.9	32
14	A Magnetic Network Model and Harmonic Analysis of a Canned Switched Reluctance Machine. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-8.	1.2	1
15	Operational design domain of automated vehicles for crossing maneuvers at two-way stop-controlled intersections. <i>Accident Analysis and Prevention</i> , 2022, 167, 106575.	3.0	2
16	Distributed Fixed-Time Resource Allocation Algorithm for the General Linear Multi-Agent Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 2867-2871.	2.2	13
17	Automated Vehicle Failure: The First Pedestrian Fatality and Public Perception. <i>Transportation Research Record</i> , 2022, 2676, 198-208.	1.0	2
18	Safety assessment of trucks based on GPS and in-vehicle monitoring data. <i>Accident Analysis and Prevention</i> , 2022, 168, 106619.	3.0	8

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19	Hotspot identification on urban arterials at the meso level. Accident Analysis and Prevention, 2022, 169, 106632.	3.0	3
20	Dual U-Net residual networks for cardiac magnetic resonance images super-resolution. Computer Methods and Programs in Biomedicine, 2022, 218, 106707.	2.6	19
21	End-to-end residual attention mechanism for cataractous retinal image dehazing. Computer Methods and Programs in Biomedicine, 2022, 219, 106779.	2.6	6
22	A Convolutional Neural Network Particle Filter for UUV Target State Estimation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	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.	4.7	6
24	Role of the Rigid Host Structure in Narrow-Band Green Emission of Eu^{2+} in $\text{Rb}_2\text{Na}_2(\text{Li}_3\text{SiO}_4)_4$: Insights into Electron-Phonon Coupling. Inorganic Chemistry, 2022, 61, 7617-7623.	1.9	5
25	Deep Convolutional Network Based on Interleaved Fusion Group. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 555-565.	2.6	4
26	Multiscale Multipath Ensemble Convolutional Neural Network. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5918-5928.	5.9	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.	2.1	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.	3.9	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.	2.4	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.	0.7	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.	3.9	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.	2.6	23
33	Transferability analysis of the freeway continuous speed model. Accident Analysis and Prevention, 2021, 151, 105944.	3.0	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.	3.9	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.	3.0	13
36	Meso-level hotspot identification for suburban arterials. Accident Analysis and Prevention, 2021, 156, 106148.	3.0	4

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37	Applying a Bayesian multivariate spatio-temporal interaction model based approach to rank sites with promise using severity-weighted decision parameters. <i>Accident Analysis and Prevention</i> , 2021, 157, 106190.	3.0	12
38	Cardiac Magnetic Resonance Images Superresolution via Multichannel Residual Attention Networks. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-8.	0.7	1
39	Multi-Stage Convolutional Broad Learning with Block Diagonal Constraint for Hyperspectral Image Classification. <i>Remote Sensing</i> , 2021, 13, 3412.	1.8	2
40	Crash comparison of autonomous and conventional vehicles using pre-crash scenario typology. <i>Accident Analysis and Prevention</i> , 2021, 159, 106281.	3.0	38
41	Gradual back-projection residual attention network for magnetic resonance image super-resolution. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106252.	2.6	21
42	Influence of familiarity with traffic regulations on delivery riders' e-bike crashes and helmet use: Two mediator ordered logit models. <i>Accident Analysis and Prevention</i> , 2021, 159, 106277.	3.0	26
43	Applicability of boosting techniques in calibrating safety performance functions for freeways. <i>Accident Analysis and Prevention</i> , 2021, 159, 106193.	3.0	11
44	Operational design domain of autonomous vehicles at skewed intersection. <i>Accident Analysis and Prevention</i> , 2021, 159, 106241.	3.0	17
45	Feasibility study of highway alignment design controls for autonomous vehicles. <i>Accident Analysis and Prevention</i> , 2021, 159, 106252.	3.0	8
46	Macrolevel Traffic Safety Longitudinal Comparison in Shanghai, China. <i>Journal of Transportation Engineering Part A: Systems</i> , 2021, 147, .	0.8	2
47	Modeling Car-Following Behavior on Freeways Considering Driving Style. <i>Journal of Transportation Engineering Part A: Systems</i> , 2021, 147, .	0.8	18
48	Semisupervised Classification of Hyperspectral Image Based on Graph Convolutional Broad Network. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 2995-3005.	2.3	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. <i>Inorganic Chemistry</i> , 2021, 60, 16604-16613.	1.9	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. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 111, 226-244.	3.9	51
53	Growth and respiratory metabolic adaptation strategies of riparian plant <i>Distylium chinense</i> to submergence by the field study and controlled experiments. <i>Plant Physiology and Biochemistry</i> , 2020, 157, 1-12.	2.8	11
54	Evaluation and Optimization of Responsibility-Sensitive Safety Models on Autonomous Car-Following Maneuvers. <i>Transportation Research Record</i> , 2020, 2674, 662-673.	1.0	13

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55	Characteristics of driver cell phone use and their influence on driving performance: A naturalistic driving study. <i>Accident Analysis and Prevention</i> , 2020, 148, 105845.	3.0	14
56	Improving the transferability of the crash prediction model using the TrAdaBoost.R2 algorithm. <i>Accident Analysis and Prevention</i> , 2020, 141, 105551.	3.0	28
57	Modeling speed profiles on mountainous freeways using high resolution data. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102679.	3.9	7
58	Transferability of safety performance functions and hotspot identification for freeways of the United States and China. <i>Accident Analysis and Prevention</i> , 2020, 139, 105493.	3.0	14
59	Safe, efficient, and comfortable velocity control based on reinforcement learning for autonomous driving. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102662.	3.9	173
60	Drifted Twitter Spam Classification Using Multiscale Detection Test on K-L Divergence. <i>IEEE Access</i> , 2019, 7, 108384-108394.	2.6	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. <i>Accident Analysis and Prevention</i> , 2019, 132, 105268.	3.0	27
63	Analysis of cut-in behavior based on naturalistic driving data. <i>Accident Analysis and Prevention</i> , 2019, 124, 127-137.	3.0	71
64	Examining lane change gap acceptance, duration and impact using naturalistic driving data. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 104, 317-331.	3.9	100
65	Combined alignment effects on deceleration and acceleration: A driving simulator study. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 104, 172-183.	3.9	25
66	Assessing the relationship between self-reported driving behaviors and driver risk using a naturalistic driving study. <i>Accident Analysis and Prevention</i> , 2019, 128, 8-16.	3.0	54
67	Macro-level traffic safety analysis in Shanghai, China. <i>Accident Analysis and Prevention</i> , 2019, 125, 249-256.	3.0	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. <i>Accident Analysis and Prevention</i> , 2019, 123, 29-38.	3.0	21
72	Analysis and comparison of safety models using average daily, average hourly, and microscopic traffic. <i>Accident Analysis and Prevention</i> , 2018, 111, 271-279.	3.0	17

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73	How to determine an optimal threshold to classify real-time crash-prone traffic conditions?. Accident Analysis and Prevention, 2018, 117, 250-261.	3.0	24
74	Evaluating the effectiveness of Behavior-Based Safety education methods for commercial vehicle drivers. Accident Analysis and Prevention, 2018, 117, 114-120.	3.0	26
75	Investigating the safety impact of roadway network features of suburban arterials in Shanghai. Accident Analysis and Prevention, 2018, 113, 137-148.	3.0	39
76	Speed, speed variation and crash relationships for urban arterials. Accident Analysis and Prevention, 2018, 113, 236-243.	3.0	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.	3.9	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.	3.9	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.	3.9	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.	3.9	39
87	Impact of data aggregation approaches on the relationships between operating speed and traffic safety. Accident Analysis and Prevention, 2018, 120, 304-310.	3.0	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.	4.7	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.	3.9	164

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91	Speed change behavior on combined horizontal and vertical curves: driving simulator-based analysis. <i>Accident Analysis and Prevention</i> , 2018, 119, 215-224.	3.0	32
92	Level-Change Stackelberg Games Model for the Combined Traffic Assignment—Signal Control Equilibrium on Networks. <i>Transportation Research Record</i> , 2018, 2672, 24-35.	1.0	1
93	Exploring the Effect of Different Neighboring Structures on Spatial Hierarchical Joint Crash Frequency Models. <i>Transportation Research Record</i> , 2018, 2672, 210-222.	1.0	8
94	A Hybrid Latent Class Analysis Modeling Approach to Analyze Urban Expressway Crash Risk. <i>Accident Analysis and Prevention</i> , 2017, 101, 37-43.	3.0	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. <i>Accident Analysis and Prevention</i> , 2017, 104, 156-164.	3.0	23
96	Classifying road network patterns using multinomial logit model. <i>Journal of Transport Geography</i> , 2017, 58, 104-112.	2.3	29
97	Safety analysis of urban arterials at the meso level. <i>Accident Analysis and Prevention</i> , 2017, 108, 100-111.	3.0	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. <i>Journal of Safety Research</i> , 2017, 62, 143-153.	1.7	21
101	Computer vision approach for the classification of bike type (motorized versus non-motorized) during busy traffic in the city of Shanghai. <i>Journal of Advanced Transportation</i> , 2016, 50, 348-362.	0.9	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. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 67, 84-94.	3.9	37
104	Development of a Kinematic-Based Forward Collision Warning Algorithm Using an Advanced Driving Simulator. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 2583-2591.	4.7	54
105	Drivers' rear end collision avoidance behaviors under different levels of situational urgency. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 71, 419-433.	3.9	88
106	Traffic safety in China: Challenges and countermeasures. <i>Accident Analysis and Prevention</i> , 2016, 95, 305-307.	3.0	13
107	Macro-level safety analysis of pedestrian crashes in Shanghai, China. <i>Accident Analysis and Prevention</i> , 2016, 96, 12-21.	3.0	97
108	Crash risk analysis for Shanghai urban expressways: A Bayesian semi-parametric modeling approach. <i>Accident Analysis and Prevention</i> , 2016, 95, 495-502.	3.0	53

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109	Driver drowsiness detection based on non-intrusive metrics considering individual specifics. <i>Accident Analysis and Prevention</i> , 2016, 95, 350-357.	3.0	115
110	The influence of combined alignments on lateral acceleration on mountainous freeways: a driving simulator study. <i>Accident Analysis and Prevention</i> , 2015, 76, 110-117.	3.0	59
111	Safety modeling of urban arterials in Shanghai, China. <i>Accident Analysis and Prevention</i> , 2015, 83, 57-66.	3.0	50
112	Exploring Operating Speeds on Urban Arterials Using Floating Car Data: Case Study in Shanghai. <i>Journal of Transportation Engineering</i> , 2014, 140, .	0.9	25
113	Systematic Approach to Hazardous-Intersection Identification and Countermeasure Development. <i>Journal of Transportation Engineering</i> , 2014, 140, 04014022.	0.9	19
114	Somatic embryogenesis from mature zygotic embryos of <i>Distylium chinense</i> (Fr.) Diels and assessment of genetic fidelity of regenerated plants by SRAP markers. <i>Plant Growth Regulation</i> , 2014, 74, 11-21.	1.8	12
115	Safety modeling of suburban arterials in Shanghai, China. <i>Accident Analysis and Prevention</i> , 2014, 70, 215-224.	3.0	23
116	Tandem synthesis of 3-allyl-chromones from alkynones and allylic alcohols under metal-free conditions. <i>Chemical Communications</i> , 2014, 50, 652-654.	2.2	45
117	A metal-free synthesis of diaryl-1,2-diketones by C≡C triple bond cleavage of alkynones. <i>Organic Chemistry Frontiers</i> , 2014, 1, 1001-1004.	2.3	23
118	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
119	Utilizing Microscopic Traffic and Weather Data to Analyze Real-Time Crash Patterns in the Context of Active Traffic Management. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 205-213.	4.7	36
120	Investigation of road network features and safety performance. <i>Accident Analysis and Prevention</i> , 2013, 56, 22-31.	3.0	45
121	Corridor-level signalized intersection safety analysis in Shanghai, China using Bayesian hierarchical models. <i>Accident Analysis and Prevention</i> , 2013, 50, 25-33.	3.0	114
122	Macrolevel Model Development for Safety Assessment of Road Network Structures. <i>Transportation Research Record</i> , 2012, 2280, 100-109.	1.0	41
123	Safety Analysis on Urban Arterials Considering Operational Conditions in Shanghai. <i>Procedia Engineering</i> , 2012, 45, 836-840.	1.2	6
124	Moped Rider Violation Behavior and Moped Safety at Intersections in China. <i>Transportation Research Record</i> , 2012, 2281, 83-91.	1.0	23
125	Centrality Characteristics of Road Network Patterns of Traffic Analysis Zones. <i>Transportation Research Record</i> , 2011, 2256, 16-24.	1.0	47
126	Integrating Trip and Roadway Characteristics to Manage Safety in Traffic Analysis Zones. <i>Transportation Research Record</i> , 2011, 2213, 20-28.	1.0	96

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127	Modeling signalized intersection safety with corridor-level spatial correlations. Accident Analysis and Prevention, 2010, 42, 84-92.	3.0	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.	1.0	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.	1.1	4
131	Validating a driving simulator using surrogate safety measures. Accident Analysis and Prevention, 2008, 40, 274-288.	3.0	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.	3.0	185
133	Modeling left-turn crash occurrence at signalized intersections by conflicting patterns. Accident Analysis and Prevention, 2008, 40, 76-88.	3.0	65
134	Investigation of Safety Influence Area for Four-Legged Signalized Intersections. Transportation Research Record, 2008, 2083, 86-95.	1.0	43
135	Right-Angle Crash Occurrence at Signalized Intersections. Transportation Research Record, 2007, 2019, 156-168.	1.0	31
136	Crash Estimation at Signalized Intersections along Corridors. Transportation Research Record, 2006, 1953, 98-111.	1.0	57
137	Temporal and spatial analyses of rear-end crashes at signalized intersections. Accident Analysis and Prevention, 2006, 38, 1137-1150.	3.0	183
138	Crash Estimation at Signalized Intersections along Corridors: Analyzing Spatial Effect and Identifying Significant Factors. , 0, .		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.	1.5	7