

Xiaozheng He

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,591
citations

236612

25
h-index

189595

50
g-index

64
all docs

64
docs citations

64
times ranked

1885
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal vehicle speed trajectory on a signalized arterial with consideration of queue. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 61, 106-120.	3.9	218
2	Method of Successive Weighted Averages (MSWA) and Self-Regulated Averaging Schemes for Solving Stochastic User Equilibrium Problem. <i>Networks and Spatial Economics</i> , 2009, 9, 485-503.	0.7	173
3	Energy-Optimal Speed Control for Electric Vehicles on Signalized Arterials. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015, 16, 2786-2796.	4.7	148
4	A link-based day-to-day traffic assignment model. <i>Transportation Research Part B: Methodological</i> , 2010, 44, 597-608.	2.8	147
5	Modeling the day-to-day traffic evolution process after an unexpected network disruption. <i>Transportation Research Part B: Methodological</i> , 2012, 46, 50-71.	2.8	120
6	Multiclass traffic assignment model for mixed traffic flow of human-driven vehicles and connected and autonomous vehicles. <i>Transportation Research Part B: Methodological</i> , 2019, 126, 139-168.	2.8	114
7	Vulnerability assessment and mitigation for the Chinese railway system under floods. <i>Reliability Engineering and System Safety</i> , 2015, 137, 58-68.	5.1	113
8	Consensus-Based Cooperative Control for Multi-Platoon Under the Connected Vehicles Environment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 2220-2229.	4.7	97
9	Nonlinear finite-time consensus-based connected vehicle platoon control under fixed and switching communication topologies. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 93, 525-543.	3.9	86
10	Eco-driving advisory strategies for a platoon of mixed gasoline and electric vehicles in a connected vehicle system. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 63, 907-922.	3.2	81
11	A car-following model considering the effect of electronic throttle opening angle under connected environment. <i>Nonlinear Dynamics</i> , 2016, 85, 2115-2125.	2.7	80
12	Nonlane-Discipline-Based Car-Following Model for Electric Vehicles in Transportation- Cyber-Physical Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 38-47.	4.7	76
13	Non-lane-discipline-based car-following model considering the effects of two-sided lateral gaps. <i>Nonlinear Dynamics</i> , 2015, 80, 227-238.	2.7	70
14	Modeling and analyzing cyberattack effects on connected automated vehicular platoons. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 115, 102625.	3.9	69
15	Estimation of the time-dependency of values of travel time and its reliability from loop detector data. <i>Transportation Research Part B: Methodological</i> , 2007, 41, 448-461.	2.8	68
16	An eco-driving system for electric vehicles with signal control under V2X environment. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 93, 335-350.	3.9	66
17	RSOD: Real-time small object detection algorithm in UAV-based traffic monitoring. <i>Applied Intelligence</i> , 2022, 52, 8448-8463.	3.3	64
18	Multiple measures-based chaotic time series for traffic flow prediction based on Bayesian theory. <i>Nonlinear Dynamics</i> , 2016, 85, 179-194.	2.7	60

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19	Traffic Equilibrium and Charging Facility Locations for Electric Vehicles. <i>Networks and Spatial Economics</i> , 2017, 17, 435-457.	0.7	59
20	Braess paradox under the boundedly rational user equilibria. <i>Transportation Research Part B: Methodological</i> , 2014, 67, 86-108.	2.8	50
21	A Real-Time Fatigue Driving Recognition Method Incorporating Contextual Features and Two Fusion Levels. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 3408-3420.	4.7	50
22	Vulnerability effects of passengers' intermodal transfer distance preference and subway expansion on complementary urban public transportation systems. <i>Reliability Engineering and System Safety</i> , 2017, 158, 58-72.	5.1	50
23	Evaluating the energy consumption of electric vehicles based on car-following model under non-lane discipline. <i>Nonlinear Dynamics</i> , 2015, 82, 629-641.	2.7	47
24	TBE-Net: A Three-Branch Embedding Network With Part-Aware Ability and Feature Complementary Learning for Vehicle Re-Identification. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 14557-14569.	4.7	34
25	Pre-disaster investment decisions for strengthening the Chinese railway system under earthquakes. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017, 105, 39-59.	3.7	33
26	Inverse variational inequalities with projection-based solution methods. <i>European Journal of Operational Research</i> , 2011, 208, 12-18.	3.5	29
27	A marginal utility day-to-day traffic evolution model based on one-step strategic thinking. <i>Transportation Research Part B: Methodological</i> , 2016, 84, 237-255.	2.8	26
28	A Self-Adaptive Dynamic Recognition Model for Fatigue Driving Based on Multi-Source Information and Two Levels of Fusion. <i>Sensors</i> , 2015, 15, 24191-24213.	2.1	25
29	Integrating social network analysis with analytic network process for international development project selection. <i>Expert Systems With Applications</i> , 2015, 42, 5128-5138.	4.4	25
30	Vulnerability analysis of public transit systems from the perspective of urban residential communities. <i>Reliability Engineering and System Safety</i> , 2019, 189, 143-156.	5.1	25
31	Analytical model for information flow propagation wave under an information relay control strategy in a congested vehicle-to-vehicle communication environment. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 94, 1-18.	3.9	21
32	Dynamic Resource Allocation Problem for Transportation Network Evacuation. <i>Networks and Spatial Economics</i> , 2014, 14, 505-530.	0.7	20
33	Maximizing Network Throughput under Stochastic User Equilibrium with Elastic Demand. <i>Networks and Spatial Economics</i> , 2018, 18, 115-143.	0.7	18
34	Model and a solution algorithm for the dynamic resource allocation problem for large-scale transportation network evacuation. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 59, 233-247.	3.9	17
35	Modeling the information flow propagation wave under vehicle-to-vehicle communications. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 85, 377-395.	3.9	17
36	An Analytical Model to Characterize the Spatiotemporal Propagation of Information Under Vehicle-to-Vehicle Communications. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 3-12.	4.7	17

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37	Spreading Patterns of Malicious Information on Single-Lane Platooned Traffic in a Connected Environment. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 248-265.	6.3	16
38	An improved linearization technique for a class of quadratic 0-1 programming problems. <i>Optimization Letters</i> , 2012, 6, 31-41.	0.9	15
39	An extended microscopic traffic flow model based on the spring-mass system theory. <i>Modern Physics Letters B</i> , 2017, 31, 1750090.	1.0	14
40	Managing morning commute congestion with a tradable credit scheme under commuter heterogeneity and market loss aversion behavior. <i>Transportmetrica B</i> , 2019, 7, 1780-1808.	1.4	14
41	Sensitivity analysis based approximation models for day-to-day link flow evolution process. <i>Transportation Research Part B: Methodological</i> , 2016, 92, 35-53.	2.8	13
42	Damping behavior analysis for connected automated vehicles with linear car following control. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 138, 103617.	3.9	13
43	Model and a Solution Algorithm for the Dynamic Resource Allocation Problem for Large-scale Transportation Network Evacuation. <i>Transportation Research Procedia</i> , 2015, 7, 441-458.	0.8	10
44	Spatiotemporal vulnerability analysis of railway systems with heterogeneous train flows. <i>Transportation Research, Part A: Policy and Practice</i> , 2019, 130, 725-744.	2.0	9
45	Combined multinomial logit modal split and paired combinatorial logit traffic assignment model. <i>Transportmetrica A: Transport Science</i> , 2018, 14, 737-760.	1.3	8
46	Vehicle classification approach based on the combined texture and shape features with a compressive DL. <i>IET Intelligent Transport Systems</i> , 2019, 13, 1069-1077.	1.7	8
47	A Multiclass Tour Flow Model and Its Role in Multiclass Freight Tour Synthesis. <i>Transportation Science</i> , 2020, 54, 631-650.	2.6	7
48	Network Design Model to Integrate Shelter Assignment with Contraflow Operations in Emergency Evacuation Planning. <i>Networks and Spatial Economics</i> , 2018, 18, 1027-1050.	0.7	6
49	Feedback perimeter control with online estimation of maximum throughput for an incident-affected road network. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2022, 26, 81-99.	2.6	6
50	Global Exponential Stability of a Neural Network for Inverse Variational Inequalities. <i>Journal of Optimization Theory and Applications</i> , 2021, 190, 915-930.	0.8	6
51	Internal Curing for Concrete Bridge Decks: Integration of a Social Cost Analysis in Evaluation of Long-Term Benefit. <i>Transportation Research Record</i> , 2016, 2577, 25-34.	1.0	5
52	Analytical model for information flow propagation wave under an information relay control strategy in a congested vehicle-to-vehicle communication environment. <i>Transportation Research Procedia</i> , 2017, 23, 738-757.	0.8	5
53	Period-to-period toll adjustment schemes for mixed traffic with time-varying electric vehicle penetration. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 129, 103237.	3.9	5
54	A Generalized Flow Splitting Model for Day-to-day Traffic Assignment. <i>Transportation Research Procedia</i> , 2015, 9, 56-70.	0.8	4

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55	An analytical model to characterize the spatiotemporal propagation of information under vehicle-to-vehicle communications. , 2014, , .		3
56	Macroscopic Modeling of Spatiotemporal Information Flow Propagation Wave under Vehicle-to-Vehicle Communications. , 2015, , .		1
57	Design of income-equitable toll prices for high occupancy toll lanes in a single toll facility. Transportation Planning and Technology, 2016, 39, 389-406.	0.9	1
58	On the Quadratic Programming Approach for Hub Location Problems. Springer Optimization and Its Applications, 2009, , 211-228.	0.6	1
59	Traffic Equilibrium and Charging Facility Locations for Electric Vehicles. , 2017, 17, 435.		1
60	Formulating Connected Automated Vehicle Dynamics under Cyberattacks Based on the Spring-Mass System. , 2021, , .		1
61	Day-to-Day Signal Retiming Scheme for Single-Destination Traffic Networks Based on a Flow Splitting Approach. Networks and Spatial Economics, 2022, 22, 855-882.	0.7	1
62	Globally convergent line search algorithm with Euler-based step size-determination method for continuous network design problem. Transportation Research Part B: Methodological, 2022, 163, 119-144.	2.8	1
63	An Evaluation Method for Toll Policy in Transportation. , 2010, , .		0