

# Jian Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,325  
citations

394421

19  
h-index

361022

35  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Day-ahead traffic flow forecasting based on a deep belief network optimized by the multi-objective particle swarm algorithm. Knowledge-Based Systems, 2019, 172, 1-14.	7.1	162
2	Comparing Prediction Performance for Crash Injury Severity Among Various Machine Learning and Statistical Methods. IEEE Access, 2018, 6, 60079-60087.	4.2	140
3	Missing Value Imputation for Traffic-Related Time Series Data Based on a Multi-View Learning Method. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2933-2943.	8.0	118
4	Decentralized Cooperative Lane-Changing Decision-Making for Connected Autonomous Vehicles. IEEE Access, 2016, 4, 9413-9420.	4.2	91
5	Cooperative Lane Changing Strategies to Improve Traffic Operation and Safety Nearby Freeway Off-Ramps in a Connected and Automated Vehicles Environment. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4605-4614.	8.0	76
6	Short-term highway traffic flow prediction based on a hybrid strategy considering temporal-spatial information. Journal of Advanced Transportation, 2016, 50, 2029-2040.	1.7	69
7	Short-to-medium Term Passenger Flow Forecasting for Metro Stations using a Hybrid Model. KSCE Journal of Civil Engineering, 2018, 22, 1937-1945.	1.9	46
8	A New Solution for Freeway Congestion: Cooperative Speed Limit Control Using Distributed Reinforcement Learning. IEEE Access, 2019, 7, 41947-41957.	4.2	45
9	Traffic speed prediction for intelligent transportation system based on a deep feature fusion model. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 605-616.	4.2	45
10	Travel time prediction for highway network based on the ensemble empirical mode decomposition and random vector functional link network. Applied Soft Computing Journal, 2018, 73, 921-932.	7.2	41
11	A Fused CP Factorization Method for Incomplete Tensors. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 751-764.	11.3	39
12	Accuracy Analysis of Freeway Traffic Speed Estimation Based on the Integration of Cellular Probe System and Loop Detectors. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2015, 19, 411-426.	4.2	31
13	A prediction model of bus arrival time at stops with multi-routes. Transportation Research Procedia, 2017, 25, 4623-4636.	1.5	31
14	Cooperative Merging Strategy for Connected Vehicles at Highway On-Ramps. Journal of Transportation Engineering Part A: Systems, 2019, 145, .	1.4	31
15	Exploring suitable traffic conditions for intermittent bus lanes. Journal of Advanced Transportation, 2015, 49, 309-325.	1.7	27
16	A study on pedestrian choice between stairway and escalator in the transfer station based on floor field cellular automata. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 5089-5100.	2.6	24
17	Evaluating the Impacts of Bus Stop Design and Bus Dwelling on Operations of Multitype Road Users. Journal of Advanced Transportation, 2018, 2018, 1-10.	1.7	24
18	Characteristics analysis for travel behavior of transportation hub passengers using mobile phone data. Transportation, 2019, 46, 1713-1736.	4.0	23

#	ARTICLE	IF	CITATIONS
19	Freeway Multisensor Data Fusion Approach Integrating Data from Cellphone Probes and Fixed Sensors. <i>Journal of Sensors</i> , 2016, 2016, 1-13.	1.1	21
20	A Novel Approach to Estimate Freeway Traffic State: Parallel Computing and Improved Kalman Filter. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2018, 10, 180-193.	3.8	20
21	Rear-End Crash Risk of CACC-Manual Driven Mixed Flow Considering the Degeneration of CACC Systems. <i>IEEE Access</i> , 2019, 7, 140421-140429.	4.2	19
22	Modeling Vehicle Interactions during Merge in Congested Weaving Section of Freeway Ramp. <i>Transportation Research Record</i> , 2014, 2421, 82-92.	1.9	17
23	Characterizing Passenger Flow for a Transportation Hub Based on Mobile Phone Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, , 1-12.	8.0	16
24	Robust and flexible strategy for missing data imputation in intelligent transportation system. <i>IET Intelligent Transport Systems</i> , 2018, 12, 151-157.	3.0	16
25	An Eco-Driving Signal Control Model for Divisible Electric Platoons in Cooperative Vehicle-Infrastructure Systems. <i>IEEE Access</i> , 2019, 7, 83277-83285.	4.2	15
26	Safety Evaluation for Connected and Autonomous Vehicles™ Exclusive Lanes considering Penetrate Ratios and Impact of Trucks Using Surrogate Safety Measures. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-16.	1.7	14
27	Pedestrian movement analysis in transfer station corridor: Velocity-based and acceleration-based. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 450, 416-434.	2.6	13
28	Using Tensor Completion Method to Achieving Better Coverage of Traffic State Estimation from Sparse Floating Car Data. <i>PLoS ONE</i> , 2016, 11, e0157420.	2.5	13
29	Optimizing Single-Depot Vehicle Scheduling Problem: Fixed-Interval Model and Algorithm. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2015, 19, 215-224.	4.2	10
30	Integrated Traffic Control for Freeway Recurrent Bottleneck Based on Deep Reinforcement Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 15522-15535.	8.0	10
31	Analyzing Passenger Travel Demand Related to the Transportation Hub inside a City Area using Mobile Phone Data. <i>Transportation Research Record</i> , 2018, 2672, 23-34.	1.9	9
32	Bus Travel Time Prediction Based on Ensemble Learning Methods. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2022, 14, 174-189.	3.8	9
33	An OFDM-Based Pre-Coded Chaos Shift Keying Transceiver for reliable V2V Transmission. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 6710-6715.	6.3	9
34	A Study on Autonomous Intersection Management: Planning-Based Strategy Improved by Convolutional Neural Network. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 3995-4004.	1.9	8
35	Navigating Electric Vehicles Along a Signalized Corridor via Reinforcement Learning: Toward Adaptive Eco-Driving Control. <i>Transportation Research Record</i> , 2022, 2676, 657-669.	1.9	8
36	Energy-Efficient Driving for Adaptive Traffic Signal Control Environment via Explainable Reinforcement Learning. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5380.	2.5	6

#	ARTICLE	IF	CITATIONS
37	Short-Term Passenger Flow Prediction for Urban Rail Stations Using Learning Network Based on Optimal Passenger Flow Information Input Algorithm. <i>IEEE Access</i> , 2020, 8, 170742-170753.	4.2	5
38	Speed Control of Pure Electric Vehicle Based on Adaptive Fuzzy PID Controller. <i>Smart Innovation, Systems and Technologies</i> , 2017, , 20-26.	0.6	4
39	Improving method of real-time offset tuning for arterial signal coordination using probe trajectory data. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401668335.	1.6	4
40	Real-Time Traffic Incident Detection with Classification Methods. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 777-788.	0.4	3
41	Survival Analysis of Bus Running Time near Bus-Stop Areas. <i>Journal of Transportation Engineering Part A: Systems</i> , 2019, 145, 04019010.	1.4	3
42	A Multiobjective Cooperative Driving Framework Based on Evolutionary Algorithm and Multitask Learning. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-14.	1.7	3
43	Evaluation of mobility impact on urban work zones using statistical models. <i>Journal of Central South University</i> , 2017, 24, 1513-1521.	3.0	2
44	An adaptive signal control using connected-vehicle data. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2019, 172, 102-110.	0.6	2
45	Development of Fuzzy Level of Service Criteria for Bus Rapid Transit considering User Heterogeneities in China. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-13.	1.7	2
46	A Simulation Approach to Detect Arterial Traffic Congestion Using Cellular Data. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-13.	1.7	1
47	Analysis of the Development Environment of Urban Intelligent Transportation Systems. <i>Advanced Materials Research</i> , 2012, 598, 189-192.	0.3	0
48	Synchronous Transfer Model of Bus Timetabling for Regional Public Transit. <i>Applied Mechanics and Materials</i> , 2012, 226-228, 2356-2361.	0.2	0
49	Research on the Construction Mechanisms for Intelligent Transportation Systems in Foreign Countries. <i>Advanced Materials Research</i> , 2012, 594-597, 3024-3028.	0.3	0
50	An Improved Optimization Method for Isolated Signalized Intersection Based on the Temporal and Spatial Resources Integration. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 96, 1696-1706.	0.5	0
51	Discriminance of activation time for bus dispatching under the environment of Intelligent Vehicle-Infrastructure Cooperation. , 2014, , .		0