Jian-hua Guo

List of Publications by Year
in descending order

53 papers	1,307 citations	430874 18 h-index	361022 35 g-index
54 all docs	54 docs citations	54 times ranked	1307 citing authors

#	Article	IF	Citations
1	Adaptive Kalman filter approach for stochastic short-term traffic flow rate prediction and uncertainty quantification. Transportation Research Part C: Emerging Technologies, 2014, 43, 50-64.	7.6	455
2	Multi-vehicle detection algorithm through combining Harr and HOG features. Mathematics and Computers in Simulation, 2019, 155, 130-145.	4.4	74
3	Real-Time Short-Term Traffic Speed Level Forecasting and Uncertainty Quantification Using Layered Kalman Filters. Transportation Research Record, 2010, 2175, 28-37.	1.9	70
4	Short-Term Traffic Flow Prediction Based on Least Square Support Vector Machine with Hybrid Optimization Algorithm. Neural Processing Letters, 2019, 50, 2305-2322.	3.2	59
5	Real time traffic flow outlier detection using short-term traffic conditional variance prediction. Transportation Research Part C: Emerging Technologies, 2015, 50, 160-172.	7.6	58
6	Data Collection Time Intervals for Stochastic Short-Term Traffic Flow Forecasting. Transportation Research Record, 2007, 2024, 18-26.	1.9	46
7	A clustering approach to online freeway traffic state identification using ITS data. KSCE Journal of Civil Engineering, 2012, 16, 426-432.	1.9	46
8	Freeway Accident Likelihood Prediction Using a Panel Data Analysis Approach. Journal of Transportation Engineering, 2007, 133, 149-156.	0.9	43
9	Short-term traffic flow prediction using fuzzy information granulation approach under different time intervals. IET Intelligent Transport Systems, 2018, 12, 143-150.	3.0	42
10	Real-Time Prediction of Seasonal Heteroscedasticity in Vehicular Traffic Flow Series. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3170-3180.	8.0	32
11	Kalman Filter Approach to Speed Estimation Using Single Loop Detector Measurements under Congested Conditions. Journal of Transportation Engineering, 2009, 135, 927-934.	0.9	31
12	An interpretable model for short term traffic flow prediction. Mathematics and Computers in Simulation, 2020, 171, 264-278.	4.4	31
13	Real time prediction of unoccupied parking space using time series model. , 2015, , .		25
14	Optimized traffic emergency resource scheduling using time varying rescue route travel time. Neurocomputing, 2018, 275, 1567-1575.	5.9	23
15	A model and genetic algorithm for area-wide intersection signal optimization under user equilibrium traffic. Mathematics and Computers in Simulation, 2019, 155, 92-104.	4.4	23
16	Modeling Seasonal Heteroscedasticity in Vehicular Traffic Condition Series Using a Seasonal Adjustment Approach. Journal of Transportation Engineering, 2014, 140, .	0.9	21
17	Next-generation innovation and development of intelligent transportation system in China. Science China Information Sciences, 2017, 60, 1.	4.3	21
18	Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2795-2803.	9.3	21

#	Article	IF	Citations
19	Integrated Heteroscedasticity Test for Vehicular Traffic Condition Series. Journal of Transportation Engineering, 2012, 138, 1161-1170.	0.9	18
20	Enhanced least square based dynamic OD matrix estimation using Radio Frequency Identification data. Mathematics and Computers in Simulation, 2019, 155, 27-40.	4.4	17
21	A Hybrid Short-term Traffic Flow Forecasting Method Based on Neural Networks Combined with K-Nearest Neighbor. Promet - Traffic - Traffico, 2018, 30, 445-456.	0.7	16
22	Econometrical investigation on infrastructure investment and economic development in China: A case study using vector autoregression approach. KSCE Journal of Civil Engineering, 2011, 15, 561-567.	1.9	15
23	Service Location Optimization Model for Improving Rural Emergency Medical Services. Transportation Research Record, 2018, 2672, 83-93.	1.9	14
24	Vehicle Emission Computation Through Microscopic Traffic Simulation Calibrated Using Genetic Algorithm. Journal of Artificial Intelligence and Soft Computing Research, 2019, 9, 67-80.	4.3	14
25	Development and Evaluation of a Vehicle-Infrastructure Integration Simulation Architecture. Journal of Computing in Civil Engineering, 2007, 21, 434-440.	4.7	12
26	Dynamic traffic demand uncertainty prediction using radio‑frequency identification data and link volume data. IET Intelligent Transport Systems, 2019, 13, 1309-1317.	3.0	11
27	Traffic network equilibrium problems with demands uncertainty and capacity constraints of arcs by scalarization approaches. Science China Technological Sciences, 2018, 61, 1642-1653.	4.0	10
28	Methodology to Identify Optimal Placement of Point Detectors for Travel Time Estimation. Journal of Transportation Engineering, 2011, 137, 155-173.	0.9	9
29	Analyzing distributions for travel time data collected using radio frequency identification technique in urban road networks. Science China Technological Sciences, 2019, 62, 106-120.	4.0	9
30	Sampling-based cooperative adaptive cruise control subject to communication delays and actuator lags. Mathematics and Computers in Simulation, 2020, 171, 13-25.	4.4	9
31	Effect of time interval on speed estimation using single loop detector measurements. KSCE Journal of Civil Engineering, 2013, 17, 1130-1138.	1.9	3
32	A decentralized strategy for generalized Nash equilibrium with linear coupling constraints. Mathematics and Computers in Simulation, 2020, 171, 221-232.	4.4	3
33	A stochastic user equilibrium model solving overlapping path and perfectly rational issues. Journal of Central South University, 2021, 28, 1584-1600.	3.0	3
34	Real Time Short-term Forecasting Method of Remaining Parking Space in Urban Parking Guidance Systems. Promet - Traffic - Traffico, 2018, 30, 173-185.	0.7	3
35	Information Technology Used to Evaluate Nontraditional Traffic Monitoring Systems. Transportation Research Record, 2007, 2024, 1-7.	1.9	2
36	Peer-to-Peer-Based Publish/Subscribe Architecture for Advanced Infrastructure Systems. Journal of Computing in Civil Engineering, 2010, 24, 65-72.	4.7	2

#	Article	IF	Citations
37	Optimized Dispatch of Expressway Block Removal and Rescue Resources Based on Genetic Algorithms. , 2011, , .		2
38	Improved bottleneck approach for heuristic systemwide responsive ramp metering on congested freeways. KSCE Journal of Civil Engineering, 2015, 19, 296-302.	1.9	2
39	Coordinated Ramp Metering under the Connected Vehicle Environment. , 2018, , .		2
40	A Novel Hybrid Evaluation Method for Transfer Efficiency Assessment between Rail Transit and Public Bicycles. Promet - Traffic - Traffico, 2020, 32, 279-282.	0.7	2
41	Travel Time Reliability-Based Signal Timing Optimization for Urban Road Traffic Network Control. Mathematical Problems in Engineering, 2020, 2020, 1-11.	1.1	2
42	A VII-Based System-Wide Ramp Metering Approach. , 2011, , .		1
43	Framework for Dynamic OD Matrix Estimation Based on Multi-Source Traffic Data Fusion. Applied Mechanics and Materials, 2014, 505-506, 1153-1156.	0.2	1
44	Conflicts analysis for urban road intersection considering non-motor vehicles and pedestrians factor. , 2015, , .		1
45	Input-to-state stability of the road transport system via cyber–physical optimal control. Mathematics and Computers in Simulation, 2020, 171, 3-12.	4.4	1
46	Effect of Time Intervals on K-nearest Neighbors Model for Short-term Traffic Flow Prediction. Promet - Traffic - Traffico, 2019, 31, 129-139.	0.7	1
47	A Research into Stock Market Volatility Using Threshold GARCH Model. , 2009, , .		0
48	Framework for developing proactive traffic control systems. , 2010, , .		0
49	License Plate Image Binarization Based on Chromatic Information and Fuzzy C-Mean Approach. Transportation Research Record, 2011, 2256, 10-15.	1.9	0
50	A Mobile Payment Based on-Street Parking Management System. Advanced Materials Research, 0, 378-379, 319-322.	0.3	0
51	Performance Measures for Short Term Traffic Condition Forecasting Algoithms. , 2013, , .		0
52	Real-Time Traffic Speed Variability Modeling and Prediction. , 2014, , .		0
53	Short-Term Traffic Flow Prediction Based on the Intelligent Parameter Adjustment K-Nearest Neighbor Algorithm. Lecture Notes in Computer Science, 2020, , 466-477.	1.3	0