Simon Hu

List of Publications by Year
in descending order

53 papers	593 citations	623574 14 h-index	677027 22 g-index
53 all docs	53 docs citations	53 times ranked	457 citing authors

#	Article	IF	Citations
1	An Automated Machine-Learning Approach for Road Pothole Detection Using Smartphone Sensor Data. Sensors, 2020, 20, 5564.	2.1	60
2	Longitudinal Platoon Control of Connected Vehicles: Analysis and Verification. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4225-4235.	4.7	48
3	A strategic repositioning algorithm for bicycle-sharing schemes. Transportmetrica A: Transport Science, 2014, 10, 759-774.	1.3	46
4	Airport emissions reductions from reduced thrust takeoff operations. Transportation Research, Part D: Transport and Environment, 2017, 52, 15-28.	3.2	37
5	Urban network-wide traffic speed estimation with massive ride-sourcing GPS traces. Transportation Research Part C: Emerging Technologies, 2020, 112, 136-152.	3.9	34
6	IQGA: A route selection method based on quantum genetic algorithm- toward urban traffic management under big data environment. World Wide Web, 2019, 22, 2129-2151.	2.7	26
7	Real-time joint traffic state and model parameter estimation on freeways with fixed sensors and connected vehicles: State-of-the-art overview, methods, and case studies. Transportation Research Part C: Emerging Technologies, 2022, 134, 103444.	3.9	24
8	Impact of Traffic Management on Black Carbon Emissions: a Microsimulation Study. Networks and Spatial Economics, 2017, 17, 269-291.	0.7	20
9	Variable Time Headway Policy Based Platoon Control for Heterogeneous Connected Vehicles With External Disturbances. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21190-21200.	4.7	19
10	Integrated solution for anomalous driving detection based on BeiDou/GPS/IMU measurements. Transportation Research Part C: Emerging Technologies, 2016, 69, 193-207.	3.9	18
11	Modeling transient particle transport in transient indoor airflow by fast fluid dynamics with the Markov chain method. Building and Environment, 2020, 186, 107323.	3.0	18
12	Urban Traffic Route Guidance Method With High Adaptive Learning Ability Under Diverse Traffic Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2956-2968.	4.7	17
13	Traffic scheduling and control in fully connected and automated networks. Transportation Research Part C: Emerging Technologies, 2021, 126, 103011.	3.9	16
14	Freeway Traffic Control in Presence of Capacity Drop. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1497-1516.	4.7	15
15	Impact of road features on shared e-scooter trip volume: A study based on multiple membership multilevel model. Travel Behaviour & Society, 2022, 28, 204-213.	2.4	15
16	Exploring multi-homing behavior of ride-sourcing drivers via real-world multiple platforms data. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 80, 61-78.	1.8	14
17	Spatial econometrics models for congestion prediction with in-vehicle route guidance. IET Intelligent Transport Systems, 2009, 3, 159.	1.7	13
18	The impact of single engine taxiing on aircraft fuel consumption and pollutant emissions. Aeronautical Journal, 2018, 122, 1967-1984.	1.1	13

#	Article	IF	Citations
19	Railway Delay Prediction with Spatial-Temporal Graph Convolutional Networks. , 2020, , .		13
20	Network-scale traffic prediction via knowledge transfer and regional MFD analysis. Transportation Research Part C: Emerging Technologies, 2022, 141, 103719.	3.9	12
21	Vehicle telematics data for urban freight environmental impact analysis. Transportation Research, Part D: Transport and Environment, 2022, 102, 103121.	3.2	11
22	A Q-learning Foresighted Approach to Ego-efficient Lane Changes of Connected and Automated Vehicles on Freeways. , 2019, , .		10
23	A Car-Following Model for Connected and Automated Vehicles With Heterogeneous Time Delays Under Fixed and Switching Communication Topologies. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14846-14858.	4.7	10
24	A comparative study of k-NN and hazard-based models for incident duration prediction. , 2014, , .		9
25	Performance of fast fluid dynamics with a semi-Lagrangian scheme and an implicit upwind scheme in simulating indoor/outdoor airflow. Building and Environment, 2022, 207, 108477.	3.0	9
26	The impact of aircraft takeoff thrust setting on NO X emissions. Journal of Air Transport Management, 2017, 65, 191-197.	2.4	7
27	Short-term Traffic Prediction with Deep Neural Networks and Adaptive Transfer Learning. , 2020, , .		6
28	Short-term demand forecasting for bike sharing system based on machine learning. , 2019, , .		5
29	Machine learning techniques to predict reactionary delays and other associated key performance indicators on British railway network. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2022, 26, 311-329.	2.6	5
30	A holistic approach for performance assessment of personal rapid transit. Research in Transportation Business and Management, 2016, 18, 70-76.	1.6	4
31	Dynamic wireless power transfer system for electricâ€powered connected and autonomous vehicle on urban road network. IET Intelligent Transport Systems, 2021, 15, 1153-1166.	1.7	4
32	High Time-Resolution Queue Profile Estimation at Signalized Intersections Based on Extended Kalman Filtering. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21274-21290.	4.7	4
33	Field investigation of vehicle acceleration at the stop line with a dynamic vision sensor. , 2013, , .		3
34	SALA: A Self-Adaptive Learning Algorithmâ€"Towards Efficient Dynamic Route Guidance in Urban Traffic Networks. Neural Processing Letters, 2019, 50, 77-101.	2.0	3
35	Discovery of the Environmental Factors Affecting Urban Dwellersâ€™ Mental Health: A Data-Driven Approach. International Journal of Environmental Research and Public Health, 2020, 17, 8167.	1.2	3
36	Queue Profile Identification at Signalized Intersections with High-Resolution Data from Drones. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	A Max Pressure Approach to Urban Network Signal Control with Queue Estimation using Connected Vehicle Data. , 2020, , .		3
38	Air quality impact of intelligent transportation system actions used in a decision support system for adaptive traffic management. International Journal of Environment and Pollution, 2015, 57, 133.	0.2	2
39	Simulation and Evaluation of CAVs Behavior in an Isolated Signalized Intersection Equipped with Dynamic Wireless Power Transfer System. , 2019, , .		2
40	Nonlinear Decision Rule Approach for Real-Time Traffic Signal Control for Congestion and Emission Mitigation. Networks and Spatial Economics, 2020, 20, 675-702.	0.7	2
41	A Domain Adaptation Framework for Short-term Traffic Prediction. , 2021, , .		2
42	Urban Eco-driving of Connected and Automated Vehicles in Traffic-Mixed and Power-heterogeneous Conditions. , 2021, , .		2
43	A data driven methodology for social science research with left-behind children as a case study. PLoS ONE, 2020, 15, e0242483.	1.1	2
44	An assessment of VMS-rerouting and traffic signal planning with emission objectives in an urban network &#x2014; A case study for the city of Graz. , 2015, , .		1
45	Exploratory Analysis for Big Social Data Using Deep Network. IEEE Access, 2019, 7, 21446-21453.	2.6	1
46	Multi-platform data collection for public service with Pay-by-Data. Multimedia Tools and Applications, 2020, 79, 33503-33518.	2.6	1
47	Understanding City-Wide Ride-Sourcing Travel Flow: A Geographically Weighted Regression Approach. Journal of Advanced Transportation, 2021, 2021, 1-15.	0.9	1
48	Current state and future outlook of traffic data fusion in London. , 2012, , .		0
49	Developing Smart Lane-changing Strategies for CAVs on Freeways based on MOBIL and Reinforcement Learning. , 2021, , .		0
50	TPEG feed from the BBC: a potential source of ITS data?. , 2008, , .		0
51	Field Investigation of Vehicle Acceleration at the Stop Line with a Dynamic Vision Sensor. Journal of Traffic and Transportation Engineering, 2014, 2, .	0.1	0
52	Real-time Freeway Traffic State Estimation with Fixed and Mobile Sensing Data. , 2020, , .		0
53	A New Assessment Framework for TOD Design: Lessons Learned from Chinese Cities. , 2020, , .		0