

Simon Hu

List of Publications by Year in descending order

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53
papers

593
citations

623574

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677027

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times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning techniques to predict reactionary delays and other associated key performance indicators on British railway network. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2022, 26, 311-329.	2.6	5
2	Longitudinal Platoon Control of Connected Vehicles: Analysis and Verification. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 4225-4235.	4.7	48
3	Performance of fast fluid dynamics with a semi-Lagrangian scheme and an implicit upwind scheme in simulating indoor/outdoor airflow. <i>Building and Environment</i> , 2022, 207, 108477.	3.0	9
4	A Car-Following Model for Connected and Automated Vehicles With Heterogeneous Time Delays Under Fixed and Switching Communication Topologies. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 14846-14858.	4.7	10
5	Vehicle telematics data for urban freight environmental impact analysis. <i>Transportation Research, Part D: Transport and Environment</i> , 2022, 102, 103121.	3.2	11
6	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. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 134, 103444.	3.9	24
7	Impact of road features on shared e-scooter trip volume: A study based on multiple membership multilevel model. <i>Travel Behaviour & Society</i> , 2022, 28, 204-213.	2.4	15
8	Variable Time Headway Policy Based Platoon Control for Heterogeneous Connected Vehicles With External Disturbances. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 21190-21200.	4.7	19
9	High Time-Resolution Queue Profile Estimation at Signalized Intersections Based on Extended Kalman Filtering. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 21274-21290.	4.7	4
10	Network-scale traffic prediction via knowledge transfer and regional MFD analysis. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 141, 103719.	3.9	12
11	Urban Traffic Route Guidance Method With High Adaptive Learning Ability Under Diverse Traffic Scenarios. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 2956-2968.	4.7	17
12	Freeway Traffic Control in Presence of Capacity Drop. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 1497-1516.	4.7	15
13	Traffic scheduling and control in fully connected and automated networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 126, 103011.	3.9	16
14	Understanding City-Wide Ride-Sourcing Travel Flow: A Geographically Weighted Regression Approach. <i>Journal of Advanced Transportation</i> , 2021, 2021, 1-15.	0.9	1
15	Queue Profile Identification at Signalized Intersections with High-Resolution Data from Drones. , 2021, , .		3
16	Dynamic wireless power transfer system for electricâ€powered connected and autonomous vehicle on urban road network. <i>IET Intelligent Transport Systems</i> , 2021, 15, 1153-1166.	1.7	4
17	Exploring multi-homing behavior of ride-sourcing drivers via real-world multiple platforms data. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 80, 61-78.	1.8	14
18	A Domain Adaptation Framework for Short-term Traffic Prediction. , 2021, , .		2

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19	Urban Eco-driving of Connected and Automated Vehicles in Traffic-Mixed and Power-heterogeneous Conditions. , 2021, , .		2
20	Developing Smart Lane-changing Strategies for CAVs on Freeways based on MOBIL and Reinforcement Learning. , 2021, , .		0
21	Multi-platform data collection for public service with Pay-by-Data. Multimedia Tools and Applications, 2020, 79, 33503-33518.	2.6	1
22	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
23	An Automated Machine-Learning Approach for Road Pothole Detection Using Smartphone Sensor Data. Sensors, 2020, 20, 5564.	2.1	60
24	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
25	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
26	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
27	Railway Delay Prediction with Spatial-Temporal Graph Convolutional Networks. , 2020, , .		13
28	Real-time Freeway Traffic State Estimation with Fixed and Mobile Sensing Data. , 2020, , .		0
29	A New Assessment Framework for TOD Design: Lessons Learned from Chinese Cities. , 2020, , .		0
30	A data driven methodology for social science research with left-behind children as a case study. PLoS ONE, 2020, 15, e0242483.	1.1	2
31	Short-term Traffic Prediction with Deep Neural Networks and Adaptive Transfer Learning. , 2020, , .		6
32	A Max Pressure Approach to Urban Network Signal Control with Queue Estimation using Connected Vehicle Data. , 2020, , .		3
33	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
34	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
35	Exploratory Analysis for Big Social Data Using Deep Network. IEEE Access, 2019, 7, 21446-21453.	2.6	1
36	Simulation and Evaluation of CAVs Behavior in an Isolated Signalized Intersection Equipped with Dynamic Wireless Power Transfer System. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Short-term demand forecasting for bike sharing system based on machine learning. , 2019, , .		5
38	A Q-learning Foresighted Approach to Ego-efficient Lane Changes of Connected and Automated Vehicles on Freeways. , 2019, , .		10
39	The impact of single engine taxiing on aircraft fuel consumption and pollutant emissions. Aeronautical Journal, 2018, 122, 1967-1984.	1.1	13
40	Impact of Traffic Management on Black Carbon Emissions: a Microsimulation Study. Networks and Spatial Economics, 2017, 17, 269-291.	0.7	20
41	Airport emissions reductions from reduced thrust takeoff operations. Transportation Research, Part D: Transport and Environment, 2017, 52, 15-28.	3.2	37
42	The impact of aircraft takeoff thrust setting on NO X emissions. Journal of Air Transport Management, 2017, 65, 191-197.	2.4	7
43	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
44	A holistic approach for performance assessment of personal rapid transit. Research in Transportation Business and Management, 2016, 18, 70-76.	1.6	4
45	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
46	An assessment of VMS-rerouting and traffic signal planning with emission objectives in an urban network — A case study for the city of Graz. , 2015, , .		1
47	A comparative study of k-NN and hazard-based models for incident duration prediction. , 2014, , .		9
48	A strategic repositioning algorithm for bicycle-sharing schemes. Transportmetrica A: Transport Science, 2014, 10, 759-774.	1.3	46
49	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
50	Field investigation of vehicle acceleration at the stop line with a dynamic vision sensor. , 2013, , .		3
51	Current state and future outlook of traffic data fusion in London. , 2012, , .		0
52	Spatial econometrics models for congestion prediction with in-vehicle route guidance. IET Intelligent Transport Systems, 2009, 3, 159.	1.7	13
53	TPEG feed from the BBC: a potential source of ITS data?. , 2008, , .		0