Tony Z Qiu

List of Publications by Year
in descending order

52 papers	639 citations	686830 13 h-index	610482 24 g-index
52 all docs	52 docs citations	52 times ranked	591 citing authors

#	Article	IF	Citations
1	Research on Roadside Unit-Assisted Cooperative Positioning Method for a Connected Vehicle Environment. Transportation Research Record, 2022, 2676, 78-90.	1.0	2
2	Distributed Dynamic Route Guidance and Signal Control for Mobile Edge Computing-Enhanced Connected Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12251-12262.	4.7	5
3	A Multi-Vehicle Longitudinal Trajectory Collision Avoidance Strategy Using AEBS With Vehicle-Infrastructure Communication. IEEE Transactions on Vehicular Technology, 2022, 71, 1253-1266.	3.9	21
4	Adaptive Pushbutton Control for Signalized Pedestrian Midblock Crossings. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	0.8	2
5	Backpressure-Based Distributed Dynamic Route Control for Connected and Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20953-20964.	4.7	2
6	Centralized and Decentralized Signal Control with Short-Term Origin-Destination Demand for Network Traffic. Journal of Advanced Transportation, 2022, 2022, 1-23.	0.9	3
7	An Occupancy-Based Adaptive Signal Control for a Congested Signalized Intersection in the Low CV Penetration Environment. Journal of Advanced Transportation, 2022, 2022, 1-18.	0.9	0
8	Connected Vehicle-Cooperative Adaptive Cruise Control Algorithm to Divide and Reform Connected Vehicle Platoons at Signalized Intersections to Improve Traffic Throughput and Safety. Transportation Research Record, 2021, 2675, 995-1005.	1.0	5
9	Multilane Microscopic Modeling to Measure Mobility and Safety Consequences of Mixed Traffic in Freeway Weaving Sections. Journal of Advanced Transportation, 2021, 2021, 1-21.	0.9	1
10	The Implications of Weather and Reflectivity Variations on Automatic Traffic Sign Recognition Performance. Journal of Advanced Transportation, 2021, 2021, 1-15.	0.9	5
11	Realâ€time predictive coordination based on vehicleâ€triggered platoon dispersion in a low penetration connected vehicle environment. IET Intelligent Transport Systems, 2021, 15, 1548-1561.	1.7	4
12	Heterogeneous Vehicular Platooning with Stable Decentralized Linear Feedback Control. , 2021, , .		4
13	A new safe lane-change trajectory model and collision avoidance control method for automatic driving vehicles. Expert Systems With Applications, 2020, 141, 112953.	4.4	47
14	Cooperative Adaptive Cruise Control and exhaust emission evaluation under heterogeneous connected vehicle network environment in urban city. Journal of Environmental Management, 2020, 256, 109975.	3.8	17
15	Expansion of the Fundamental Diagram from a Microscopic Multilane Modeling Framework of Mixed Traffic. Journal of Advanced Transportation, 2020, 2020, 1-15.	0.9	2
16	Bifurcation and robust control analysis to tractor-semitrailer with interference on rainy slippery road. Future Generation Computer Systems, 2020, 107, 126-143.	4.9	2
17	Improved Model for Forward Collision Warning System Based on DSRC. , 2020, , .		0
18	Introduction for Canadian Journal of Civil Engineering Special Issue of ICTIS 2017. Canadian Journal of Civil Engineering, 2019, 46, v-v.	0.7	0

#	Article	IF	Citations
19	RSE-Assisted Lane-Level Positioning Method for a Connected Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2644-2656.	4.7	17
20	Platoon Priority Visualization Modeling and Optimization for Signal Coordination in the Connected Vehicle Environment. Transportation Research Record, 2019, 2673, 36-48.	1.0	10
21	Active Warning System for Highway-Rail Grade Crossings Using Connected Vehicle Technologies. Journal of Advanced Transportation, 2019, 2019, 1-11.	0.9	8
22	Modeling passengersâ€™ perceptions of intercity train service quality for regular and special days. Public Transport, 2019, 11, 549-576.	1.7	4
23	A geostatistical approach to winter road surface condition estimation using mobile RWIS data. Canadian Journal of Civil Engineering, 2019, 46, 511-521.	0.7	4
24	Pedestrian crossing behaviors at uncontrolled multi-lane mid-block crosswalks in developing world. Journal of Safety Research, 2018, 64, 145-154.	1.7	46
25	A Geostatistical Investigation into the Effective Spatiotemporal Coverage of Road Weather Information Systems in Alberta, Canada. Journal of Advanced Transportation, 2018, 2018, 1-11.	0.9	2
26	Improving Traffic State Prediction Model for Variable Speed Limit Control by Introducing Stochastic Supply and Demand. Journal of Advanced Transportation, 2018, 2018, 1-12.	0.9	5
27	Signal Priority Request Delay Modeling and Mitigation for Emergency Vehicles in Connected Vehicle Environment. Transportation Research Record, 2018, 2672, 45-57.	1.0	5
28	Modeling Microscopic Car-Following Strategy of Mixed Traffic to Identify Optimal Platoon Configurations for Multiobjective Decision-Making. Journal of Advanced Transportation, 2018, 2018, 1-15.	0.9	30
29	Method for Imputing Missing Data using Online Calibration for Urban Freeway Control. Transportation Research Record, 2018, 2672, 44-54.	1.0	3
30	Pixel-based heterogeneous traffic measurement considering shadow and illumination variation. Signal, Image and Video Processing, 2017, 11, 1245-1252.	1.7	9
31	Vehicle-to-Pedestrian Communication Modeling and Collision Avoiding Method in Connected Vehicle Environment. Transportation Research Record, 2017, 2621, 21-30.	1.0	21
32	Link travel time and delay estimation using transit AVL data. , 2017, , .		4
33	Transit travel time prediction for passing signalized intersection using vehicle positioning data. , 2017, , .		1
34	Verification tests for the behavioural theory of multi-lane traffic flow at a weaving segment. , 2017, , .		1
35	Impacts of night-time work-zone speed restrictions on freeway speed characteristics a case study on Edmonton, Canada. , 2017, , .		1
36	Introducing Weather Factor Modelling into Macro Traffic State Prediction. Journal of Advanced Transportation, 2017, 2017, 1-15.	0.9	19

#	Article	IF	Citations
37	A micro-simulation study on proactive coordinated ramp metering for relieving freeway congestion. Canadian Journal of Civil Engineering, 2016, 43, 599-608.	0.7	12
38	Integrated performance evaluation of roadside equipment placement for real-time traffic monitoring. , 2014, , .		1
39	Modeling the impact of work-zone traffic flows upon concrete construction: a high level architecture based simulation framework. Canadian Journal of Civil Engineering, 2014, 41, 144-153.	0.7	2
40	DynaTAM: an online algorithm for performing simultaneously optimized proactive traffic control for freeways. Canadian Journal of Civil Engineering, 2014, 41, 315-322.	0.7	5
41	Scene€based pedestrian safety performance model in mixed traffic situation. IET Intelligent Transport Systems, 2014, 8, 209-218.	1.7	23
42	Optimization of snow plowing cost and time in an urban environment: A case study for the City of Edmonton. Canadian Journal of Civil Engineering, 2014, 41, 667-675.	0.7	24
43	Compatibility analysis of macroscopic and microscopic traffic simulation modeling. Canadian Journal of Civil Engineering, 2013, 40, 613-622.	0.7	5
44	Cell transmission model based variable speed limit control for freeways. Canadian Journal of Civil Engineering, 2013, 40, 46-56.	0.7	92
45	An energy-efficient sub-Nyquist sampling method based on compressed sensing in wireless sensor network for vehicle detection. , 2013, , .		1
46	Evaluating Performance of a Proactive Optimal Variable Speed Limit Control Using Different Objective Functions. Procedia, Social and Behavioral Sciences, 2013, 96, 2895-2906.	0.5	6
47	Variable Speed Limit Control Design for Relieving Congestion Caused by Active Bottlenecks. Journal of Transportation Engineering, 2013, 139, 358-370.	0.9	58
48	Perspectives on Future Transportation Research: Impact of Intelligent Transportation System Technologies on Next-Generation Transportation Modeling. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2012, 16, 226-242.	2.6	75
49	Traffic jam modeling and simulation. , 2012, , .		3
50	METANET model improvement for traffic control. , 2011, , .		9
51	Vehicle-Pedestrian Interaction Analysis in Mixed Traffic Condition. , 2011, , .		3
52	Kalman Filtering Used in Video-Based Traffic Monitoring System. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2006, 10, 15-21.	2.6	8