Jia Hu

List of Publications by Year in Descending Order

44 papers	920 citations	14 h-index	29 g-index
60 ext. papers	1,232 ext. citations	4.5 avg, IF	4.75 L-index

#	Paper	IF	Citations
44	Modeling System Dynamics of Mixed Traffic With Partial Connected and Automated Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-10	6.1	1
43	Human-Lead-Platooning Cooperative Adaptive Cruise Control. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-20	6.1	2
42	A detection method for cyber-attack on connected signal phase and timing information. *Transportmetrica B*, **2022**, 10, 731-751	1.8	
41	Illumination and Temperature-Aware Multispectral Networks for Edge-Computing-Enabled Pedestrian Detection. *IEEE Transactions on Network Science and Engineering*, **2021**, 1-1	4.9	4
40	A Novel Model for Designing a Demand- Responsive Connector (DRC) Transit System With Consideration of Users⬚Preferred Time Windows. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 2442-2451	6.1	3
39	A motion planner enabling cooperative lane changing: Reducing congestion under partially connected and automated environment. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2021**, 25, 469-481	3.2	3
38	Development of a Robust Cooperative Adaptive Cruise Control With Dynamic Topology. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-12	6.1	4
37	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	3
36	Cut through traffic to catch green light: Eco approach with overtaking capability. *Transportation Research Part C: Emerging Technologies*, **2021**, 123, 102927	8.4	4
35	Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *IEEE Internet of Things Journal*, **2021**, 8, 13316-13327	10.7	1
34	Cooperative Adaptive Cruise Control With Robustness Against Communication Delay: An Approach in the Space Domain. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-12	6.1	10
33	Understanding Public Acceptability of Congestion Charging in Beijing. *Journal of Transportation Engineering Part A: Systems*, **2020**, 146, 04020080	1.5	4
32	Control Design, Stability Analysis, and Traffic Flow Implications for Cooperative Adaptive Cruise Control Systems with Compensation of Communication Delay. *Transportation Research Record*, **2020**, 2674, 638-652	1.7	9
31	Road side unit location optimization for optimum link flow determination. *Computer-Aided Civil and Infrastructure Engineering*, **2020**, 35, 61-79	8.4	8
30	A generic simulation platform for cooperative adaptive cruise control under partially connected and automated environment. *Transportation Research Part C: Emerging Technologies*, **2020**, 121, 102874	8.4	9
29	Modelling merging behaviour joining a cooperative adaptive cruise control platoon. *IET Intelligent Transport Systems*, **2020**, 14, 693-701	2.4	5
28	Real-Time Vehicle Motion Detection and Motion Altering for Connected Vehicle: Algorithm Design and Practical Applications. *Sensors*, **2019**, 19,	3.8	9

27	An eco-drive experiment on rolling terrains for fuel consumption optimization with connected automated vehicles. *Transportation Research Part C: Emerging Technologies*, **2019**, 100, 125-141	8.4	31
26	Quasi-vehicle-trajectory-based real-time safety analysis for expressways. *Transportation Research Part C: Emerging Technologies*, **2019**, 103, 30-38	8.4	20
25	Cooperative weaving for connected and automated vehicles to reduce traffic oscillation. *Transportmetrica A: Transport Science*, **2019**, 1-19	2.5	5
24	Improving fuel efficiency of connected and automated transit buses on signallised corridors. *IET Intelligent Transport Systems*, **2019**, 13, 870-879	2.4	1
23	An Extensive Investigation of an Eco-Approach Controller under a Partially Connected and Automated Vehicle Environment. *Sustainability*, **2019**, 11, 6319	3.6	4
22	Development and verification of cooperative adaptive cruise control via LTE-V. *IET Intelligent Transport Systems*, **2019**, 13, 991-1000	2.4	2
21	Development of a Cooperative Automated Driving System via LTE-V **2018**,		1
20	Impact of Automated Vehicle Eco-Approach on Human-Driven Vehicles. *IEEE Access*, **2018**, 6, 62128-62135	3.5	9
19	Revisiting Hit-and-Run Crashes: A Geo-Spatial Modeling Method. *Transportation Research Record*, **2018**, 2672, 81-92	1.7	14
18	Development of a simulation platform for safety impact analysis considering vehicle dynamics, sensor errors, and communication latencies: Assessing cooperative adaptive cruise control under cyber attack. *Transportation Research Part C: Emerging Technologies*, **2018**, 97, 1-22	8.4	43
17	An Agent-Based Model for Dispatching Real-Time Demand-Responsive Feeder Bus. *Mathematical Problems in Engineering*, **2018**, 2018, 1-11	1.1	10
16	Exploring environmentally sustainable traffic signal warrant for planning application. *International Journal of Sustainable Transportation*, **2017**, 11, 526-539	3.6	
15	Eco approaching at an isolated signalized intersection under partially connected and automated vehicles environment. *Transportation Research Part C: Emerging Technologies*, **2017**, 79, 290-307	8.4	144
14	Transit Signal Priority Experiment in a Connected Vehicle Technology Environment. *Journal of Transportation Engineering Part A: Systems*, **2017**, 143, 05017005	1.5	7
13	Integrated vehicle and powertrain optimization for passenger vehicles with vehicle-infrastructure communication. *Transportation Research Part C: Emerging Technologies*, **2017**, 79, 85-102	8.4	23
12	Sensors in Connected Vehicle Technology: How Sensors Play a Critical Role. *Journal of Sensors*, **2017**, 2017, 1-2	2	1
11	Parsimonious shooting heuristic for trajectory design of connected automated traffic part II: Computational issues and optimization. *Transportation Research Part B: Methodological*, **2017**, 95, 421-441	7.2	122
10	Cycle-based variable speed limit methodology for improved freeway merging. *IET Intelligent Transport Systems*, **2017**, 11, 632-640	2.4	5

9	Integrated optimal eco-driving on rolling terrain for hybrid electric vehicle with vehicle-infrastructure communication. *Transportation Research Part C: Emerging Technologies*, **2016**, 68, 228-244	8.4	86
8	Investigating macro-level hotzone identification and variable importance using big data: A random forest models approach. *Neurocomputing*, **2016**, 181, 53-63	5.4	35
7	How big data serves for freight safety management at highway-rail grade crossings? A spatial approach fused with path analysis. *Neurocomputing*, **2016**, 181, 38-52	5.4	19
6	Identifying mismatch between urban travel demand and transport network services using GPS data: A case study in the fast growing Chinese city of Harbin. *Neurocomputing*, **2016**, 181, 4-18	5.4	28
5	Transit signal priority accommodating conflicting requests under Connected Vehicles technology. *Transportation Research Part C: Emerging Technologies*, **2016**, 69, 173-192	8.4	47
4	Coordinated transit signal priority supporting transit progression under Connected Vehicle Technology. *Transportation Research Part C: Emerging Technologies*, **2015**, 55, 393-408	8.4	119
3	Transit Signal Priority with Connected Vehicle Technology. *Transportation Research Record*, **2014**, 2418, 20-29	1.7	44
2	A Cyber-ITS framework for massive traffic data analysis using cyber infrastructure. *Scientific World Journal, The*, **2013**, 2013, 462846	2.2	7
1	Optimization based trajectory planner for multilane roundabouts with connected automation. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*,1-12	3.2	2