Jia Hu

List of Publications by Year
in descending order

59 papers	1,568 citations	430442 18 h-index	315357 38 g-index
60 all docs	60 docs citations	60 times ranked	1107 citing authors

#	Article	IF	Citations
1	Eco approaching at an isolated signalized intersection under partially connected and automated vehicles environment. Transportation Research Part C: Emerging Technologies, 2017, 79, 290-307.	3.9	248
2	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.	2.8	174
3	Coordinated transit signal priority supporting transit progression under Connected Vehicle Technology. Transportation Research Part C: Emerging Technologies, 2015, 55, 393-408.	3.9	150
4	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.	3.9	137
5	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.	3.9	84
6	Transit signal priority accommodating conflicting requests under Connected Vehicles technology. Transportation Research Part C: Emerging Technologies, 2016, 69, 173-192.	3.9	65
7	Transit Signal Priority with Connected Vehicle Technology. Transportation Research Record, 2014, 2418, 20-29.	1.0	55
8	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.	3.9	52
9	Investigating macro-level hotzone identification and variable importance using big data: A random forest models approach. Neurocomputing, 2016, 181, 53-63.	3.5	47
10	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.	3.5	39
11	A generic simulation platform for cooperative adaptive cruise control under partially connected and automated environment. Transportation Research Part C: Emerging Technologies, 2020, 121, 102874.	3.9	38
12	Quasi-vehicle-trajectory-based real-time safety analysis for expressways. Transportation Research Part C: Emerging Technologies, 2019, 103, 30-38.	3.9	36
13	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.	1.0	34
14	Cooperative Adaptive Cruise Control With Robustness Against Communication Delay: An Approach in the Space Domain. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5496-5507.	4.7	33
15	Integrated vehicle and powertrain optimization for passenger vehicles with vehicle-infrastructure communication. Transportation Research Part C: Emerging Technologies, 2017, 79, 85-102.	3.9	32
16	Human-Lead-Platooning Cooperative Adaptive Cruise Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18253-18272.	4.7	27
17	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.	3.5	22
18	Revisiting Hit-and-Run Crashes: A Geo-Spatial Modeling Method. Transportation Research Record, 2018, 2672, 81-92.	1.0	21

#	Article	IF	Citations
19	Modeling System Dynamics of Mixed Traffic With Partial Connected and Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15755-15764.	4.7	21
20	Cut through traffic to catch green light: Eco approach with overtaking capability. Transportation Research Part C: Emerging Technologies, 2021, 123, 102927.	3.9	19
21	Impact of Automated Vehicle Eco-Approach on Human-Driven Vehicles. IEEE Access, 2018, 6, 62128-62135.	2.6	18
22	Real-Time Vehicle Motion Detection and Motion Altering for Connected Vehicle: Algorithm Design and Practical Applications. Sensors, 2019, 19, 4108.	2.1	17
23	Illumination and Temperature-Aware Multispectral Networks for Edge-Computing-Enabled Pedestrian Detection. IEEE Transactions on Network Science and Engineering, 2022, 9, 1282-1295.	4.1	17
24	Transit Signal Priority Experiment in a Connected Vehicle Technology Environment. Journal of Transportation Engineering Part A: Systems, 2017, 143, .	0.8	14
25	Vehicle sensor data-based transportation research: Modeling, analysis, and management. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 99-102.	2.6	14
26	An Agent-Based Model for Dispatching Real-Time Demand-Responsive Feeder Bus. Mathematical Problems in Engineering, 2018, 2018, 1-11.	0.6	12
27	Transit Signal Priority Enabling Connected and Automated Buses to Cut Through Traffic. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8782-8792.	4.7	12
28	Road side unit location optimization for optimum link flow determination. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 61-79.	6.3	11
29	Modelling merging behaviour joining a cooperative adaptive cruise control platoon. IET Intelligent Transport Systems, 2020, 14, 693-701.	1.7	11
30	Development of a Robust Cooperative Adaptive Cruise Control With Dynamic Topology. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4279-4290.	4.7	11
31	A Cyber-ITS Framework for Massive Traffic Data Analysis Using Cyber Infrastructure. Scientific World Journal, The, 2013, 2013, 1-9.	0.8	9
32	Cooperative weaving for connected and automated vehicles to reduce traffic oscillation. Transportmetrica A: Transport Science, 2022, 18, 125-143.	1.3	9
33	Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. IEEE Internet of Things Journal, 2021, 8, 13316-13327.	5.5	9
34	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.	2.6	8
35	An Extensive Investigation of an Eco-Approach Controller under a Partially Connected and Automated Vehicle Environment. Sustainability, 2019, 11, 6319.	1.6	7
36	A Novel Model for Designing a Demand- Responsive Connector (DRC) Transit System With Consideration of Usersâ€™ Preferred Time Windows. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2442-2451.	4.7	7

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37	Optimal Control-Based Highway Pilot Motion Planner With Stochastic Traffic Consideration. IEEE Intelligent Transportation Systems Magazine, 2023, 15, 421-436.	2.6	7
38	Development and verification of cooperative adaptive cruise control via LTEâ€V. IET Intelligent Transport Systems, 2019, 13, 991-1000.	1.7	6
39	Understanding Public Acceptability of Congestion Charging in Beijing. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	6
40	Cycleâ€based variable speed limit methodology for improved freeway merging. IET Intelligent Transport Systems, 2017, 11, 632-640.	1.7	6
41	Improving fuel efficiency of connected and automated transit buses on signallised corridors. IET Intelligent Transport Systems, 2019, 13, 870-879.	1.7	6
42	Optimization based trajectory planner for multilane roundabouts with connected automation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 411-422.	2.6	5
43	Modeling System Dynamics of Mixed Traffic with Partially Connected and Automated Vehicles. , 2019, , .		4
44	Optimal control based CACC: Problem formulation, solution, and stability analysis. , 2019, , .		2
45	Speed harmonization for partially connected and automated traffic. , 2021, , .		2
46	Fusion of ALOS and QuickBird imagery for mangrove analysis — A case study in Beilun estuary, Vietnam. , 2011, , .		1
47	Sensors in Connected Vehicle Technology: How Sensors Play a Critical Role. Journal of Sensors, 2017, 2017, 1-2.	0.6	1
48	Development of a Cooperative Automated Driving System via LTE-V. , 2018, , .		1
49	Cooperative Adaptive Cruise Control: A Field Experiment. , 2020, , .		1
50	Notice of Retraction: A Preliminary Investigation on Microrheological Responses of Short ssDNA in Brownian Motion. , 2011, , .		0
51	Exploring environmentally sustainable traffic signal warrant for planning application. International Journal of Sustainable Transportation, 2017, 11, 526-539.	2.1	0
52	Modeling Maximum Throughput of Freeway Merging Area with Partially Connected Automated Traffic. , 2021, , .		0
53	A Generic Simulation Platform for Cooperative Adaptive Cruise Control under Partially Connected and Automated Environment. , 2020, , .		0
54	Lane Change Like a Snake: Cooperative Adaptive Cruise Control with Platoon Lane Change Capability. , 2020, , .		0

#	Article	IF	Citations
55	An adaptive cooperative adaptive cruise control against varying vehicle loads*. , 2021, , .		0
56	A Cyber-Attack Detection in Vehicle-to-Infrastructure Communication Based on LSTM Network. , 2021, , .		0
57	A detection method for cyber-attack on connected signal phase and timing information. Transportmetrica B, 2022, 10, 731-751.	1.4	0
58	A Roundabout Control for Connected and Automated Traffic. , 2021, , .		0
59	A human-centric machine learning based personalized route choice prediction in navigation systems. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 523-535.	2.6	0