

Hao Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,223
citations

19
h-index

33
g-index

60
ext. papers

1,620
ext. citations

3.1
avg, IF

5.19
L-index

#	Paper	IF	Citations
59	A novel optimization-based method to develop representative driving cycle in various driving conditions. <i>Energy</i> , 2022 , 247, 123455	7.9	0
58	An Unsupervised Clustering Method for Processing Roadside LiDAR Data with Improved Computational Efficiency. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
57	Automatic Vehicle Detection With Roadside LiDAR Data Under Rainy and Snowy Conditions. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2021 , 13, 197-209	2.6	7
56	An automatic skateboarder detection method with roadside LiDAR data. <i>Journal of Transportation Safety and Security</i> , 2021 , 13, 298-317	1.7	2
55	Road Boundary-Enhanced Automatic Background Filtering for Roadside LiDAR Sensors. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2021 , 0-0	2.6	1
54	Traffic Volume Detection Using Infrastructure-Based LiDAR under Different Levels of Service Conditions. <i>Journal of Transportation Engineering Part A: Systems</i> , 2021 , 147, 04021080	1.5	1
53	Optimization based method to develop representative driving cycle for real-world fuel consumption estimation. <i>Energy</i> , 2021 , 235, 121434	7.9	5
52	An Automatic Background Filtering Method for Detection of Road Users in Heavy Traffics Using Roadside 3-D LiDAR Sensors With Noises. <i>IEEE Sensors Journal</i> , 2020 , 20, 6596-6604	4	11
51	Vehicle Detection under Adverse Weather from Roadside LiDAR Data. <i>Sensors</i> , 2020 , 20,	3.8	9
50	An automatic lane identification method for the roadside light detection and ranging sensor. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2020 , 24, 467-479	3.2	6
49	Metro passenger's path choice model estimation with travel time correlations derived from smart card data. <i>Transportation Planning and Technology</i> , 2020 , 43, 141-157	1.6	3
48	A novel skateboarder-related near-crash identification method with roadside LiDAR data. <i>Accident Analysis and Prevention</i> , 2020 , 137, 105438	6.1	4
47	Real-Time Queue Length Detection with Roadside LiDAR Data. <i>Sensors</i> , 2020 , 20,	3.8	4
46	Geometric design of metered on-ramps: state-of-the-practice and remaining challenges. <i>Transportation Letters</i> , 2020 , 12, 649-658	2.1	3
45	Lane change identification and prediction with roadside LiDAR data. <i>Optics and Laser Technology</i> , 2020 , 123, 105934	4.2	6
44	Towards application of light detection and ranging sensor to traffic detection: an investigation of its built-in features and installation techniques. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2020 , 1-22	3.2	3
43	Automatic Lane Identification Using the Roadside LiDAR Sensors. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 12, 25-34	2.6	32

42	Automatic Background Construction and Object Detection Based on Roadside LiDAR. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 4086-4097	6.1	17
41	An improved vehicle-pedestrian near-crash identification method with a roadside LiDAR sensor. <i>Journal of Safety Research</i> , 2020 , 73, 211-224	4	8
40	Probabilistic Prediction of Pedestrian Crossing Intention Using Roadside LiDAR Data. <i>IEEE Access</i> , 2019 , 7, 93781-93790	3.5	17
39	Detection and tracking of pedestrians and vehicles using roadside LiDAR sensors. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 100, 68-87	8.4	103
38	A portable roadside vehicle detection system based on multi-sensing fusion. <i>International Journal of Sensor Networks</i> , 2019 , 29, 38	0.8	12
37	Deer Crossing Road Detection With Roadside LiDAR Sensor. <i>IEEE Access</i> , 2019 , 7, 65944-65954	3.5	19
36	Raster-Based Background Filtering for Roadside LiDAR Data. <i>IEEE Access</i> , 2019 , 7, 76779-76788	3.5	17
35	LiDAR-Enhanced Connected Infrastructures Sensing and Broadcasting High-Resolution Traffic Information Serving Smart Cities. <i>IEEE Access</i> , 2019 , 7, 79895-79907	3.5	27
34	Vehicle Detection and Tracking in Complex Traffic Circumstances with Roadside LiDAR. <i>Transportation Research Record</i> , 2019 , 2673, 62-71	1.7	18
33	Points Registration for Roadside LiDAR Sensors. <i>Transportation Research Record</i> , 2019 , 2673, 627-639	1.7	16
32	Revolution and rotation-based method for roadside LiDAR data integration. <i>Optics and Laser Technology</i> , 2019 , 119, 105571	4.2	20
31	Automatic Ground Points Identification Method for Roadside LiDAR Data. <i>Transportation Research Record</i> , 2019 , 2673, 140-152	1.7	8
30	Automatic ground points filtering of roadside LiDAR data using a channel-based filtering algorithm. <i>Optics and Laser Technology</i> , 2019 , 115, 374-383	4.2	22
29	Queue length estimation for a metered on-ramp using mesoscopic simulation. <i>Transportation Letters</i> , 2019 , 11, 570-579	2.1	7
28	Annual Average Daily Traffic Prediction Model for Minor Roads at Intersections. <i>Journal of Transportation Engineering Part A: Systems</i> , 2019 , 145, 04019041	1.5	6
27	Data Registration with Ground Points for Roadside LiDAR Sensors. <i>Remote Sensing</i> , 2019 , 11, 1354	5	12
26	Automatic Vehicle Tracking With Roadside LiDAR Data for the Connected-Vehicles System. <i>IEEE Intelligent Systems</i> , 2019 , 34, 44-51	4.2	38
25	Trajectory tracking and prediction of pedestrian's crossing intention using roadside LiDAR. <i>IET Intelligent Transport Systems</i> , 2019 , 13, 789-795	2.4	25

24	Architecture of Vehicle Trajectories Extraction With Roadside LiDAR Serving Connected Vehicles. <i>IEEE Access</i> , 2019 , 7, 100406-100415	3.5	14
23	Automatic Vehicle Classification using Roadside LiDAR Data. <i>Transportation Research Record</i> , 2019 , 2673, 153-164	1.7	31
22	Microsimulation Analysis of Traffic Operations at Two Diamond Interchange Types. <i>Journal of Advanced Transportation</i> , 2019 , 2019, 1-11	1.9	3
21	A data mapping method for roadside LiDAR sensors 2019 ,		2
20	Azimuth-Height Background Filtering Method for Roadside LiDAR Data 2019 ,		3
19	Tracking Multi-Vehicles With Reference Points Switches at the Intersection Using a Roadside LiDAR Sensor. <i>IEEE Access</i> , 2019 , 7, 174072-174082	3.5	3
18	The influence of road familiarity on distracted driving activities and driving operation using naturalistic driving study data. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018 , 52, 75-85	4.5	35
17	Feasibility of Using a Constant Acceleration Rate for Freeway Entrance Ramp Acceleration Lane Length Design. <i>Journal of Transportation Engineering Part A: Systems</i> , 2018 , 144, 06017001	1.5	8
16	Impacts of traffic flow arrival pattern on the necessary queue storage space at metered on-ramps. <i>Transportmetrica A: Transport Science</i> , 2018 , 14, 543-561	2.5	12
15	Automatic Background Filtering Method for Roadside LiDAR Data. <i>Transportation Research Record</i> , 2018 , 2672, 106-114	1.7	45
14	Modeling the Impacts of Traffic Flow Arrival Profiles on Ramp Metering Queues. <i>Transportation Research Record</i> , 2018 , 2672, 85-92	1.7	5
13	Roadside Magnetic Sensor System for Vehicle Detection in Urban Environments. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 1365-1374	6.1	54
12	Driver behavior analysis on rural 2-lane, 2-way highways using SHRP 2 NDS data. <i>Traffic Injury Prevention</i> , 2018 , 19, 838-843	1.8	13
11	3-D Data Processing to Extract Vehicle Trajectories from Roadside LiDAR Data. <i>Transportation Research Record</i> , 2018 , 2672, 14-22	1.7	32
10	Driver Behavior Fault Analysis on Ramp-related Crashes/Near-Crashes Using SHRP 2 Naturalistic Driving Study Data 2018 ,		4
9	A novel method of vehicle-pedestrian near-crash identification with roadside LiDAR data. <i>Accident Analysis and Prevention</i> , 2018 , 121, 238-249	6.1	52
8	Driver behavior analysis for right-turn drivers at signalized intersections using SHRP 2 naturalistic driving study data. <i>Journal of Safety Research</i> , 2017 , 63, 177-185	4	40
7	2017 ,		30

6	Human-driver speed profile modeling for autonomous vehicle's velocity strategy on curvy paths 2016,		3
5	Highly Efficient Silicon Michelson Interferometer Modulators. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 407-409	2.2	42
4	High-speed, low-loss silicon Mach-Zehnder modulators with doping optimization. <i>Optics Express</i> , 2013 , 21, 4116-25	3.3	188
3	25 Gbit/s silicon microring modulator based on misalignment-tolerant interleaved PN junctions. <i>Optics Express</i> , 2012 , 20, 2507-15	3.3	114
2	Automatic Identification of Vehicle Partial Occlusion in Data Collected by Roadside LiDAR Sensors. <i>Transportation Research Record</i> ,036119812110693	1.7	0
1	Fast-Spherical-Projection-Based Point Cloud Clustering Algorithm. <i>Transportation Research Record</i> ,036119812210743	1.7	0