Hao Xu

List of Publications by Citations

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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	High-speed, low-loss silicon Mach-Zehnder modulators with doping optimization. *Optics Express*, **2013**, 21, 4116-25	3.3	188
58	25 Gbit/s silicon microring modulator based on misalignment-tolerant interleaved PN junctions. *Optics Express*, **2012**, 20, 2507-15	3.3	114
57	Detection and tracking of pedestrians and vehicles using roadside LiDAR sensors. *Transportation Research Part C: Emerging Technologies*, **2019**, 100, 68-87	8.4	103
56	Roadside Magnetic Sensor System for Vehicle Detection in Urban Environments. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 1365-1374	6.1	54
55	A novel method of vehicle-pedestrian near-crash identification with roadside LiDAR data. *Accident Analysis and Prevention*, **2018**, 121, 238-249	6.1	52
54	Automatic Background Filtering Method for Roadside LiDAR Data. *Transportation Research Record*, **2018**, 2672, 106-114	1.7	45
53	Highly Efficient Silicon Michelson Interferometer Modulators. *IEEE Photonics Technology Letters*, **2013**, 25, 407-409	2.2	42
52	Driver behavior analysis for right-turn drivers at signalized intersections using SHRP 2 naturalistic driving study data. *Journal of Safety Research*, **2017**, 63, 177-185	4	40
51	Automatic Vehicle Tracking With Roadside LiDAR Data for the Connected-Vehicles System. *IEEE Intelligent Systems*, **2019**, 34, 44-51	4.2	38
50	The influence of road familiarity on distracted driving activities and driving operation using naturalistic driving study data. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2018**, 52, 75-85	4.5	35
49	Automatic Lane Identification Using the Roadside LiDAR Sensors. *IEEE Intelligent Transportation Systems Magazine*, **2020**, 12, 25-34	2.6	32
48	3-D Data Processing to Extract Vehicle Trajectories from Roadside LiDAR Data. *Transportation Research Record*, **2018**, 2672, 14-22	1.7	32
47	Automatic Vehicle Classification using Roadside LiDAR Data. *Transportation Research Record*, **2019**, 2673, 153-164	1.7	31
46	**2017**,		30
45	LiDAR-Enhanced Connected Infrastructures Sensing and Broadcasting High-Resolution Traffic Information Serving Smart Cities. *IEEE Access*, **2019**, 7, 79895-79907	3.5	27
44	Trajectory tracking and prediction of pedestrian's crossing intention using roadside LiDAR. *IET Intelligent Transport Systems*, **2019**, 13, 789-795	2.4	25
43	Automatic ground points filtering of roadside LiDAR data using a channel-based filtering algorithm. *Optics and Laser Technology*, **2019**, 115, 374-383	4.2	22

42	Revolution and rotation-based method for roadside LiDAR data integration. *Optics and Laser Technology*, **2019**, 119, 105571	4.2	20
41	Deer Crossing Road Detection With Roadside LiDAR Sensor. *IEEE Access*, **2019**, 7, 65944-65954	3.5	19
40	Vehicle Detection and Tracking in Complex Traffic Circumstances with Roadside LiDAR. *Transportation Research Record*, **2019**, 2673, 62-71	1.7	18
39	Probabilistic Prediction of Pedestrian Crossing Intention Using Roadside LiDAR Data. *IEEE Access*, **2019**, 7, 93781-93790	3.5	17
38	Raster-Based Background Filtering for Roadside LiDAR Data. *IEEE Access*, **2019**, 7, 76779-76788	3.5	17
37	Automatic Background Construction and Object Detection Based on Roadside LiDAR. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 21, 4086-4097	6.1	17
36	Points Registration for Roadside LiDAR Sensors. *Transportation Research Record*, **2019**, 2673, 627-639	1.7	16
35	Architecture of Vehicle Trajectories Extraction With Roadside LiDAR Serving Connected Vehicles. *IEEE Access*, **2019**, 7, 100406-100415	3.5	14
34	Driver behavior analysis on rural 2-lane, 2-way highways using SHRP 2 NDS data. *Traffic Injury Prevention*, **2018**, 19, 838-843	1.8	13
33	A portable roadside vehicle detection system based on multi-sensing fusion. *International Journal of Sensor Networks*, **2019**, 29, 38	0.8	12
32	Impacts of traffic flow arrival pattern on the necessary queue storage space at metered on-ramps. *Transportmetrica A: Transport Science*, **2018**, 14, 543-561	2.5	12
31	Data Registration with Ground Points for Roadside LiDAR Sensors. *Remote Sensing*, **2019**, 11, 1354	5	12
30	An Automatic Background Filtering Method for Detection of Road Users in Heavy Traffics Using Roadside 3-D LiDAR Sensors With Noises. *IEEE Sensors Journal*, **2020**, 20, 6596-6604	4	11
29	Vehicle Detection under Adverse Weather from Roadside LiDAR Data. *Sensors*, **2020**, 20,	3.8	9
28	Automatic Ground Points Identification Method for Roadside LiDAR Data. *Transportation Research Record*, **2019**, 2673, 140-152	1.7	8
27	Feasibility of Using a Constant Acceleration Rate for Freeway Entrance Ramp Acceleration Lane Length Design. *Journal of Transportation Engineering Part A: Systems*, **2018**, 144, 06017001	1.5	8
26	An improved vehicle-pedestrian near-crash identification method with a roadside LiDAR sensor. *Journal of Safety Research*, **2020**, 73, 211-224	4	8
25	Queue length estimation for a metered on-ramp using mesoscopic simulation. *Transportation Letters*, **2019**, 11, 570-579	2.1	7

24	Automatic Vehicle Detection With Roadside LiDAR Data Under Rainy and Snowy Conditions. *IEEE Intelligent Transportation Systems Magazine*, **2021**, 13, 197-209	2.6	7
23	An automatic lane identification method for the roadside light detection and ranging sensor. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2020**, 24, 467-479	3.2	6
22	Annual Average Daily Traffic Prediction Model for Minor Roads at Intersections. *Journal of Transportation Engineering Part A: Systems*, **2019**, 145, 04019041	1.5	6
21	Lane change identification and prediction with roadside LiDAR data. *Optics and Laser Technology*, **2020**, 123, 105934	4.2	6
20	Modeling the Impacts of Traffic Flow Arrival Profiles on Ramp Metering Queues. *Transportation Research Record*, **2018**, 2672, 85-92	1.7	5
19	Optimization based method to develop representative driving cycle for real-world fuel consumption estimation. *Energy*, **2021**, 235, 121434	7.9	5
18	A novel skateboarder-related near-crash identification method with roadside LiDAR data. *Accident Analysis and Prevention*, **2020**, 137, 105438	6.1	4
17	Real-Time Queue Length Detection with Roadside LiDAR Data. *Sensors*, **2020**, 20,	3.8	4
16	Driver Behavior Fault Analysis on Ramp-related Crashes/Near-Crashes Using SHRP 2 Naturalistic Driving Study Data **2018**,		4
15	Metro passengers' path choice model estimation with travel time correlations derived from smart card data. *Transportation Planning and Technology*, **2020**, 43, 141-157	1.6	3
14	Human-driver speed profile modeling for autonomous vehicle's velocity strategy on curvy paths **2016**,		3
13	Microsimulation Analysis of Traffic Operations at Two Diamond Interchange Types. *Journal of Advanced Transportation*, **2019**, 2019, 1-11	1.9	3
12	Geometric design of metered on-ramps: state-of-the-practice and remaining challenges. *Transportation Letters*, **2020**, 12, 649-658	2.1	3
11	Towards application of light detection and ranging sensor to traffic detection: an investigation of its built-in features and installation techniques. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2020**, 1-22	3.2	3
10	Azimuth-Height Background Filtering Method for Roadside LiDAR Data **2019**,		3
9	Tracking Multi-Vehicles With Reference Points Switches at the Intersection Using a Roadside LiDAR Sensor. *IEEE Access*, **2019**, 7, 174072-174082	3.5	3
8	A data mapping method for roadside LiDAR sensors **2019**,		2
7	An automatic skateboarder detection method with roadside LiDAR data. *Journal of Transportation Safety and Security*, **2021**, 13, 298-317	1.7	2

List of Publications

6	Road Boundary-Enhanced Automatic Background Filtering for Roadside LiDAR Sensors. *IEEE Intelligent Transportation Systems Magazine*, **2021**, 0-0	2.6	1
5	Traffic Volume Detection Using Infrastructure-Based LiDAR under Different Levels of Service Conditions. *Journal of Transportation Engineering Part A: Systems*, **2021**, 147, 04021080	1.5	1
4	An Unsupervised Clustering Method for Processing Roadside LiDAR Data with Improved Computational Efficiency. *IEEE Sensors Journal*, **2022**, 1-1	4	1
3	Automatic Identification of Vehicle Partial Occlusion in Data Collected by Roadside LiDAR Sensors. *Transportation Research Record*,036119812110693	1.7	0
2	A novel optimization-based method to develop representative driving cycle in various driving conditions. *Energy*, **2022**, 247, 123455	7.9	0
1	Fast-Spherical-Projection-Based Point Cloud Clustering Algorithm. *Transportation Research Record*,036119812210743	1.7	1