Mashrur Chowdhury

List of Publications by Year
in descending order

78 papers	2,296 citations	279798 23 h-index	233421 45 g-index
78 all docs	78 docs citations	78 times ranked	2440 citing authors

#	Article	IF	Citations
1	A Review of Communication, Driver Characteristics, and Controls Aspects of Cooperative Adaptive Cruise Control (CACC). IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 491-509.	8.0	372
2	Vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication in a heterogeneous wireless network â€" Performance evaluation. Transportation Research Part C: Emerging Technologies, 2016, 68, 168-184.	7.6	268
3	Review of Microscopic Lane-Changing Models and Future Research Opportunities. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1942-1956.	8.0	152
4	Real-Time Highway Traffic Condition Assessment Framework Using Vehicleâ€"Infrastructure Integration (VII) With Artificial Intelligence (AI). IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 615-627.	8.0	95
5	An energy optimization strategy for power-split drivetrain plug-in hybrid electric vehicles. Transportation Research Part C: Emerging Technologies, 2012, 22, 29-41.	7.6	83
6	Potential of Intelligent Transportation Systems in Mitigating Adverse Weather Impacts on Road Mobility: A Review. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1107-1119.	8.0	81
7	A Review of Sensing and Communication, Human Factors, and Controller Aspects for Information-Aware Connected and Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 7-29.	8.0	69
8	Real-Time Traffic State Estimation With Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1687-1699.	8.0	65
9	Integration of Structural Health Monitoring and Intelligent Transportation Systems for Bridge Condition Assessment: Current Status and Future Direction. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2107-2122.	8.0	61
10	Risk Analysis of Autonomous Vehicles in Mixed Traffic Streams. Transportation Research Record, 2017, 2625, 51-61.	1.9	61
11	Integrated Traffic and Communication Performance Evaluation of an Intelligent Vehicle Infrastructure Integration (VII) System for Online Travel-Time Prediction. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1369-1382.	8.0	56
12	Meeting privacy challenges while advancing intelligent transportation systems. Transportation Research Part C: Emerging Technologies, 2012, 25, 34-45.	7.6	46
13	Development and Evaluation of Recurrent Neural Network-Based Models for Hourly Traffic Volume and Annual Average Daily Traffic Prediction. Transportation Research Record, 2019, 2673, 489-503.	1.9	39
14	Forward power-train energy management modeling for assessing benefits of integrating predictive traffic data into plug-in-hybrid electric vehicles. Transportation Research, Part D: Transport and Environment, 2012, 17, 201-207.	6.8	38
15	An integrated modeling approach for facilitating emission estimations of alternative fueled vehicles. Transportation Research, Part D: Transport and Environment, 2012, 17, 15-20.	6.8	34
16	A Distributed Message Delivery Infrastructure for Connected Vehicle Technology Applications. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 787-801.	8.0	32
17	Improving the Efficacy of Car-Following Models With a New Stochastic Parameter Estimation and Calibration Method. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2687-2699.	8.0	30
18	Fault-Tree Model for Risk Assessment of Bridge Failure: Case Study for Segmental Box Girder Bridges. Journal of Infrastructure Systems, 2013, 19, 326-334.	1.8	29

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19	Introduction to the Special Issue on Emergent Cooperative Technologies in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1-5.	8.0	27
20	Long Short-Term Memory Neural Network-Based Attack Detection Model for In-Vehicle Network Security. , 2020, 4, 1-4.		27
21	Infrastructure Cost Issues Related to Inductively Coupled Power Transfer for Electric Vehicles. Procedia Computer Science, 2014, 32, 545-552.	2.0	26
22	Intelligent Transportation Systems-A Frontier for Breaking Boundaries of Traditional Academic Engineering Disciplines [Education]. IEEE Intelligent Transportation Systems Magazine, 2016, 8, 4-8.	3.8	26
23	Utilizing real-time information transferring potentials to vehicles to improve the fast-charging process in electric vehicles. Transportation Research Part C: Emerging Technologies, 2013, 26, 352-366.	7.6	24
24	Estimation of Pavement and Bridge Damage Costs Caused by Overweight Trucks. Transportation Research Record, 2014, 2411, 62-71.	1.9	24
25	Lessons Learned from the Real-World Deployment of a Connected Vehicle Testbed. Transportation Research Record, 2018, 2672, 10-23.	1.9	24
26	What do riders tweet about the people that they meet? Analyzing online commentary about UberPool and Lyft Shared/Lyft Line. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 62, 459-472.	3.7	23
27	Analysis of Work Zone Traffic Behavior for Planning Applications. Transportation Planning and Technology, 2008, 31, 183-199.	2.0	20
28	Prohibiting Left-Turn Movements at Mid-Block Unsignalized Driveways: Simulation Analysis. Journal of Transportation Engineering, 2005, 131, 279-285.	0.9	19
29	An Efficient Wireless Power Transfer System to Balance the State of Charge of Electric Vehicles. , 2016, , .		19
30	Cybersecurity Attacks in Vehicle-to-Infrastructure Applications and Their Prevention. Transportation Research Record, 2018, 2672, 66-78.	1.9	19
31	Transportation Cyber-Physical System and its importance for future mobility. , 2018, , 1-20.		19
32	Synergizing Roadway Infrastructure Investment with Digital Infrastructure for Infrastructure-Based Connected Vehicle Applications: Review of Current Status and Future Directions. Journal of Infrastructure Systems, 2019, 25, .	1.8	19
33	Grey models for short-term queue length predictions for adaptive traffic signal control. Expert Systems With Applications, 2021, 185, 115618.	7.6	19
34	Evaluation of Driver Car-Following Behavior Models for Cooperative Adaptive Cruise Control Systems. Transportation Research Record, 2017, 2622, 84-95.	1.9	18
35	Energy Consumption Reduction Strategies for Plug-In Hybrid Electric Vehicles with Connected Vehicle Technology in Urban Areas. Transportation Research Record, 2014, 2424, 29-38.	1.9	16
36	Development of a sensor system for traffic data collection. Journal of Advanced Transportation, 2009, 43, 1-20.	1.7	15

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37	Harnessing the Power of Microscopic Simulation to Evaluate Freeway Service Patrols. Journal of Transportation Engineering, 2009, 135, 427-439.	0.9	15
38	Simulation analysis for evacuation under congested traffic scenarios: a case study. Simulation, 2012, 88, 1379-1389.	1.8	15
39	Wireless charging utility maximization and intersection control delay minimization framework for electric vehicles. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 547-568.	9.8	14
40	Wireless Communication Alternatives for Intelligent Transportation Systems: A Case Study. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2011, 15, 147-160.	4.2	13
41	Development of Statewide Annual Average Daily Traffic Estimation Model from Short-Term Counts: A Comparative Study for South Carolina. Transportation Research Record, 2018, 2672, 55-64.	1.9	13
42	Vision-Based Personal Safety Messages (PSMs) Generation for Connected Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 9402-9416.	6.3	13
43	Real-Time Pedestrian Detection Approach with an Efficient Data Communication Bandwidth Strategy. Transportation Research Record, 2019, 2673, 129-139.	1.9	12
44	Are drivers cool with pool? Driver attitudes towards the shared TNC services UberPool and Lyft Shared. Transport Policy, 2020, 94, 123-138.	6.6	12
45	A simulation modeling framework for community-wide evacuation planning. Journal of Transportation Security, 2011, 4, 1-18.	1.4	11
46	Connectivity supported dynamic routing of electric vehicles in an inductively coupled power transfer environment. IET Intelligent Transport Systems, 2016, 10, 370-377.	3.0	11
47	Process for evaluating the data transfer performance of wireless traffic sensors for real‑time intelligent transportation systems applications. IET Intelligent Transport Systems, 2017, 11, 18-27.	3.0	11
48	Multi-class twitter data categorization and geocoding with a novel computing framework. Cities, 2020, 96, 102410.	5.6	11
49	Commercial Cloud Computing for Connected Vehicle Applications in Transportation Cyberphysical Systems: A Case Study. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 6-19.	3.8	11
50	ThinGs In a Fog: System Illustration with Connected Vehicles. , 2017, , .		10
51	A network wide simulation strategy of alternative fuel vehicles. Transportation Research Part C: Emerging Technologies, 2014, 40, 201-214.	7.6	9
52	Vision-Based Navigation of Autonomous Vehicles in Roadway Environments with Unexpected Hazards. Transportation Research Record, 2019, 2673, 494-507.	1.9	9
53	University Traveler Value of Potential Real-Time Transit Information. Journal of Public Transportation, 2011, 14, 29-50.	1.2	9
54	Investigating hierarchical effects of adaptive signal control system on crash severity using random-parameter ordered regression models incorporating observed heterogeneity. Accident Analysis and Prevention, 2021, 150, 105895.	5.7	8

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55	Hybrid Quantum-Classical Neural Network for Cloud-Supported In-Vehicle Cyberattack Detection. , 2022, 6, 1-4.		8
56	Applying dynamic traffic assignment in modeling permit-restricted parking utilizing microscopic traffic simulation. Simulation, 2012, 88, 936-947.	1.8	7
57	Potentials of Online Media and Location-Based Big Data for Urban Transit Networks in Developing Countries. Transportation Research Record, 2015, 2537, 52-61.	1.9	7
58	Change Point Models for Real-Time Cyber Attack Detection in Connected Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12328-12342.	8.0	7
59	Evaluation of different contraflow strategies for hurricane evacuation in Charleston, South Carolina. Transportation Planning and Technology, 2011, 34, 139-154.	2.0	6
60	Impact of Minimum Driveway Spacing Policies on Safety Performance: An Integrated Traffic Micro-Simulation and Automated Conflict Analysis. International Journal of Transportation Science and Technology, 2014, 3, 249-264.	3.6	6
61	Investigating the impacts of crash prediction models on quantifying safety effectiveness of Adaptive Signal Control Systems. Journal of Safety Research, 2021, 76, 301-313.	3.6	6
62	Assessing the likelihood of secondary crashes on freeways with Adaptive Signal Control System deployed on alternate routes. Journal of Safety Research, 2021, 76, 314-326.	3.6	6
63	Operational analysis of a connected vehicle€supported access control on urban arterials. IET Intelligent Transport Systems, 2018, 12, 134-142.	3.0	5
64	Performance Evaluation of 5G Millimeter-Wave-Based Vehicular Communication for Connected Vehicles. IEEE Access, 2022, 10, 31031-31042.	4.2	5
65	15th Intelligent Transportation Systems World Congress. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2010, 14, 51-53.	4.2	4
66	An Agent-Based Solution Framework for Inter-Block Yard Crane Scheduling Problems. International Journal of Transportation Science and Technology, 2012, 1, 109-130.	3.6	4
67	Assessment of Operational Effectiveness of SynchroGreen Adaptive Signal Control System in South Carolina. Transportation Research Record, 2021, 2675, 714-728.	1.9	4
68	Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections. IEEE Internet of Things Journal, 2021, 8, 13077-13094.	8.7	4
69	Analysis of cost estimation disclosure in environmental impact statements for surface transportation projects. Transportation, 2011, 38, 525-544.	4.0	3
70	Selecting an Asset Management System for Intelligent Transportation Systems. Public Works Management Policy, 2013, 18, 322-337.	1.2	3
71	Development of a Professional Services Management Training Program. Transportation Research Record, 2014, 2414, 29-34.	1.9	2
72	Current Practice of Design and Delivery of Online Training for Transportation Professionals at Public Agencies. Public Works Management Policy, 2017, 22, 335-355.	1.2	2

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73	Development and Performance Evaluation of a Connected Vehicle Application Development Platform. Transportation Research Record, 2020, 2674, 537-552.	1.9	2
74	Dynamic error-bounded lossy compression to reduce the bandwidth requirement for real-time vision-based pedestrian safety applications. Journal of Real-Time Image Processing, 2022, 19, 117-131.	3.5	2
75	Process for Developing Asynchronous Online Training for Transportation Agency Professionals: Case Study. Transportation Research Record, 2016, 2552, 23-31.	1.9	1
76	Topology-aware transmission scheduling for highway wireless sensor networks. , 2009, , .		0
77	Non-Real-Time Transportation Applications: Potential Use of Connected Vehicle Data and Data Infrastructure Requirements. Journal of Infrastructure Systems, 2019, 25, 02518002.	1.8	0
78	Evaluation of Project Development Process at State Transportation Agencies. Transportation Research Record, 2021, 2675, 326-337.	1.9	0