

Mashrur Chowdhury

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,296
citations

279798

23
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233421

45
g-index

78
all docs

78
docs citations

78
times ranked

2440
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Performance Evaluation of 5G Millimeter-Wave-Based Vehicular Communication for Connected Vehicles. IEEE Access, 2022, 10, 31031-31042.	4.2	5
4	Hybrid Quantum-Classical Neural Network for Cloud-Supported In-Vehicle Cyberattack Detection. , 2022, 6, 1-4.		8
5	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
6	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
7	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
8	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
9	Assessment of Operational Effectiveness of SynchroGreen Adaptive Signal Control System in South Carolina. Transportation Research Record, 2021, 2675, 714-728.	1.9	4
10	Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections. IEEE Internet of Things Journal, 2021, 8, 13077-13094.	8.7	4
11	Grey models for short-term queue length predictions for adaptive traffic signal control. Expert Systems With Applications, 2021, 185, 115618.	7.6	19
12	Evaluation of Project Development Process at State Transportation Agencies. Transportation Research Record, 2021, 2675, 326-337.	1.9	0
13	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
14	Multi-class twitter data categorization and geocoding with a novel computing framework. Cities, 2020, 96, 102410.	5.6	11
15	Development and Performance Evaluation of a Connected Vehicle Application Development Platform. Transportation Research Record, 2020, 2674, 537-552.	1.9	2
16	Vision-Based Personal Safety Messages (PSMs) Generation for Connected Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 9402-9416.	6.3	13
17	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
18	Long Short-Term Memory Neural Network-Based Attack Detection Model for In-Vehicle Network Security. , 2020, 4, 1-4.		27

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19	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
20	Real-Time Pedestrian Detection Approach with an Efficient Data Communication Bandwidth Strategy. Transportation Research Record, 2019, 2673, 129-139.	1.9	12
21	Vision-Based Navigation of Autonomous Vehicles in Roadway Environments with Unexpected Hazards. Transportation Research Record, 2019, 2673, 494-507.	1.9	9
22	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
23	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
24	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
25	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
26	Lessons Learned from the Real-World Deployment of a Connected Vehicle Testbed. Transportation Research Record, 2018, 2672, 10-23.	1.9	24
27	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
28	Cybersecurity Attacks in Vehicle-to-Infrastructure Applications and Their Prevention. Transportation Research Record, 2018, 2672, 66-78.	1.9	19
29	Transportation Cyber-Physical System and its importance for future mobility. , 2018, , 1-20.		19
30	Operational analysis of a connected vehicle-supported access control on urban arterials. IET Intelligent Transport Systems, 2018, 12, 134-142.	3.0	5
31	A Distributed Message Delivery Infrastructure for Connected Vehicle Technology Applications. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 787-801.	8.0	32
32	Real-Time Traffic State Estimation With Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1687-1699.	8.0	65
33	Evaluation of Driver Car-Following Behavior Models for Cooperative Adaptive Cruise Control Systems. Transportation Research Record, 2017, 2622, 84-95.	1.9	18
34	Risk Analysis of Autonomous Vehicles in Mixed Traffic Streams. Transportation Research Record, 2017, 2625, 51-61.	1.9	61
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	ThinGs In a Fog: System Illustration with Connected Vehicles. , 2017, , .		10
38	Vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication in a heterogeneous wireless network “ Performance evaluation. Transportation Research Part C: Emerging Technologies, 2016, 68, 168-184.	7.6	268
39	An Efficient Wireless Power Transfer System to Balance the State of Charge of Electric Vehicles. , 2016, , .		19
40	Process for Developing Asynchronous Online Training for Transportation Agency Professionals: Case Study. Transportation Research Record, 2016, 2552, 23-31.	1.9	1
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	Estimation of Pavement and Bridge Damage Costs Caused by Overweight Trucks. Transportation Research Record, 2014, 2411, 62-71.	1.9	24
50	Development of a Professional Services Management Training Program. Transportation Research Record, 2014, 2414, 29-34.	1.9	2
51	A network wide simulation strategy of alternative fuel vehicles. Transportation Research Part C: Emerging Technologies, 2014, 40, 201-214.	7.6	9
52	Infrastructure Cost Issues Related to Inductively Coupled Power Transfer for Electric Vehicles. Procedia Computer Science, 2014, 32, 545-552.	2.0	26
53	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
54	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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55	Review of Microscopic Lane-Changing Models and Future Research Opportunities. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1942-1956.	8.0	152
56	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
57	Selecting an Asset Management System for Intelligent Transportation Systems. Public Works Management Policy, 2013, 18, 322-337.	1.2	3
58	Applying dynamic traffic assignment in modeling permit-restricted parking utilizing microscopic traffic simulation. Simulation, 2012, 88, 936-947.	1.8	7
59	Simulation analysis for evacuation under congested traffic scenarios: a case study. Simulation, 2012, 88, 1379-1389.	1.8	15
60	Meeting privacy challenges while advancing intelligent transportation systems. Transportation Research Part C: Emerging Technologies, 2012, 25, 34-45.	7.6	46
61	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
62	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
63	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
64	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
65	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
66	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
67	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
68	Analysis of cost estimation disclosure in environmental impact statements for surface transportation projects. Transportation, 2011, 38, 525-544.	4.0	3
69	A simulation modeling framework for community-wide evacuation planning. Journal of Transportation Security, 2011, 4, 1-18.	1.4	11
70	Evaluation of different contraflow strategies for hurricane evacuation in Charleston, South Carolina. Transportation Planning and Technology, 2011, 34, 139-154.	2.0	6
71	University Traveler Value of Potential Real-Time Transit Information. Journal of Public Transportation, 2011, 14, 29-50.	1.2	9
72	15th Intelligent Transportation Systems World Congress. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2010, 14, 51-53.	4.2	4

#	ARTICLE	IF	CITATIONS
73	Development of a sensor system for traffic data collection. Journal of Advanced Transportation, 2009, 43, 1-20.	1.7	15
74	Real-Time Highway Traffic Condition Assessment Framework Using Vehicle-Infrastructure Integration (VII) With Artificial Intelligence (AI). IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 615-627.	8.0	95
75	Harnessing the Power of Microscopic Simulation to Evaluate Freeway Service Patrols. Journal of Transportation Engineering, 2009, 135, 427-439.	0.9	15
76	Topology-aware transmission scheduling for highway wireless sensor networks. , 2009, , .		0
77	Analysis of Work Zone Traffic Behavior for Planning Applications. Transportation Planning and Technology, 2008, 31, 183-199.	2.0	20
78	Prohibiting Left-Turn Movements at Mid-Block Unsignalized Driveways: Simulation Analysis. Journal of Transportation Engineering, 2005, 131, 279-285.	0.9	19