

# Guoyuan Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,269  
citations

304743

22  
h-index

289244

40  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1640  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative Ramp Merging Design and Field Implementation: A Digital Twin Approach Based on Vehicle-to-Cloud Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4490-4500.	8.0	31
2	Game Theory-Based Ramp Merging for Mixed Traffic With Unity-SUMO Co-Simulation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5746-5757.	9.3	26
3	Position Uncertainty-Tolerant Cooperative Merging Application for Mixed Multilane Traffic. IEEE Transactions on Intelligent Vehicles, 2022, 7, 143-153.	12.7	10
4	Evaluating Cybersecurity Risks of Cooperative Ramp Merging in Mixed Traffic Environments. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 52-65.	3.8	3
5	A Systematic Review of Autonomous Emergency Braking System: Impact Factor, Technology, and Performance Evaluation. Journal of Advanced Transportation, 2022, 2022, 1-13.	1.7	10
6	Physical Model versus Artificial Neural Network (ANN) Model: A Comparative Study on Modeling Car-Following Behavior at Signalized Intersections. Journal of Advanced Transportation, 2022, 2022, 1-18.	1.7	4
7	Online Prediction of Lane Change with a Hierarchical Learning-Based Approach. , 2022, , .		12
8	Personalized Car Following for Autonomous Driving with Inverse Reinforcement Learning. , 2022, , .		21
9	An Innovative Framework to Evaluate the Performance of Connected Vehicle Applications: From the Perspective of Speed Variation-Based Entropy (SVE). IEEE Intelligent Transportation Systems Magazine, 2021, 13, 45-63.	3.8	1
10	Shared Automated Mobility with Demand-Side Cooperation: A Proof-of-Concept Microsimulation Study. Sustainability, 2021, 13, 2483.	3.2	6
11	Cut through traffic to catch green light: Eco approach with overtaking capability. Transportation Research Part C: Emerging Technologies, 2021, 123, 102927.	7.6	19
12	Vehicle Dispatching and Scheduling Algorithms for Battery Electric Heavy-Duty Truck Fleets Considering En-route Opportunity Charging. , 2021, , .		1
13	Operational Feasibility Assessment of Battery Electric Construction Equipment Based on In-Use Activity Data. Transportation Research Record, 2021, 2675, 809-820.	1.9	4
14	Stated acceptance and behavioral responses of drivers towards innovative connected vehicle applications. Accident Analysis and Prevention, 2021, 155, 106095.	5.7	6
15	Corridor-Wise Eco-Friendly Cooperative Ramp Management System for Connected and Automated Vehicles. Sustainability, 2021, 13, 8557.	3.2	4
16	On-ramp merging strategy for connected and automated vehicles based on complete information static game. Journal of Traffic and Transportation Engineering (English Edition), 2021, 8, 582-595.	4.2	14
17	Connected Vehicle-Based Advanced Detection of "Slow-Down" Events on Freeways. , 2021, , .		0
18	Cooperative Eco-Driving at Signalized Intersections in a Partially Connected and Automated Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2029-2038.	8.0	101

#	ARTICLE	IF	CITATIONS
19	Errata for "Cooperative Eco-Driving at Signalized Intersections in a Partially Connected and Automated Vehicle Environment" IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4919-4919.	8.0	1
20	A Survey on Cooperative Longitudinal Motion Control of Multiple Connected and Automated Vehicles. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 4-24.	3.8	189
21	Partially Connected and Automated Traffic Operations in Road Transportation. Journal of Advanced Transportation, 2020, 2020, 1-3.	1.7	1
22	Developing a Data-driven Modularized Model of a Plug-in Hybrid Electric Bus (PHEB) for Connected and Automated Vehicle Applications. , 2020, , .		2
23	Driver Behavior Modeling Using Game Engine and Real Vehicle: A Learning-Based Approach. IEEE Transactions on Intelligent Vehicles, 2020, 5, 738-749.	12.7	54
24	Intersection and Stop Bar Position Extraction From Vehicle Positioning Data. IEEE Transactions on Intelligent Transportation Systems, 2020, , 1-12.	8.0	0
25	Optimal Control-Based Eco-Ramp Merging System for Connected and Automated Vehicles. , 2020, , .		8
26	Vehicle Energy/Emissions Estimation Based on Vehicle Trajectory Reconstruction Using Sparse Mobile Sensor Data. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 716-726.	8.0	26
27	Evaluation of electric vehicle component performance over eco-driving cycles. Energy, 2019, 172, 823-839.	8.8	56
28	Developing an Aerial-Image-Based Approach for Creating Digital Sidewalk Inventories. Transportation Research Record, 2019, 2673, 499-507.	1.9	8
29	Early Findings from Field Trials of Heavy-Duty Truck Connected Eco-Driving System. , 2019, , .		10
30	An Advanced Simulation Framework of an Integrated Vehicle-Powertrain Eco-Operation System for Electric Buses. , 2019, , .		6
31	Lookup Table-Based Consensus Algorithm for Real-Time Longitudinal Motion Control of Connected and Automated Vehicles. , 2019, , .		9
32	The State-of-the-Art of Coordinated Ramp Control with Mixed Traffic Conditions. , 2019, , .		25
33	Prediction-Based Eco-Approach and Departure at Signalized Intersections With Speed Forecasting on Preceding Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1378-1389.	8.0	59
34	Deep reinforcement learning enabled self-learning control for energy efficient driving. Transportation Research Part C: Emerging Technologies, 2019, 99, 67-81.	7.6	156
35	Connected Vehicle-Based Lane Selection Assistance Application. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2630-2643.	8.0	24
36	Eco-Approach and Departure (EAD) Application for Actuated Signals in Real-World Traffic. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 30-40.	8.0	84

#	ARTICLE	IF	CITATIONS
37	Data-driven decomposition analysis and estimation of link-level electric vehicle energy consumption under real-world traffic conditions. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 64, 36-52.	6.8	97
38	Cluster-Wise Cooperative Eco-Approach and Departure Application for Connected and Automated Vehicles Along Signalized Arterials. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018, 3, 404-413.	12.7	23
39	A Review on Cooperative Adaptive Cruise Control (CACC) Systems: Architectures, Controls, and Applications. , 2018, , .		129
40	Safety analysis of the eco-approach and departure application at a signalized corridor. <i>Tsinghua Science and Technology</i> , 2018, 23, 157-171.	6.1	6
41	Connected Cooperative Ecodriving System Considering Human Driver Error. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 2721-2733.	8.0	20
42	Impact of positioning uncertainty on eco-approach and departure of connected and automated vehicles. , 2018, , .		8
43	Performance Measurement Evaluation Framework and Co-Benefit/Tradeoff Analysis for Connected and Automated Vehicles (CAV) Applications: A Survey. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2018, 10, 110-122.	3.8	38
44	A comparative study on data segregation for mesoscopic energy modeling. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 50, 70-82.	6.8	11
45	Development and Evaluation of an Evolutionary Algorithm-Based OnLine Energy Management System for Plug-In Hybrid Electric Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 2181-2191.	8.0	58
46	Development and Evaluation of High-Speed Differential Warning Application Using Vehicle-to-Vehicle Communication. <i>Transportation Research Record</i> , 2017, 2621, 81-91.	1.9	5
47	Integrated-Connected Eco-Driving System for PHEVs With Co-Optimization of Vehicle Dynamics and Powertrain Operations. <i>IEEE Transactions on Intelligent Vehicles</i> , 2017, 2, 2-13.	12.7	56
48	Modal Activity-Based Stochastic Model for Estimating Vehicle Trajectories from Sparse Mobile Sensor Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 701-711.	8.0	26
49	Evaluating the environmental impact of traffic congestion based on sparse mobile crowd-sourced data. , 2017, , .		11
50	GlidePath: Eco-Friendly Automated Approach and Departure at Signalized Intersections. <i>IEEE Transactions on Intelligent Vehicles</i> , 2017, 2, 266-277.	12.7	78
51	Cluster-wise cooperative eco-approach and departure application along signalized arterials. , 2017, , .		14
52	Power-Based Optimal Longitudinal Control for a Connected Eco-Driving System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 2900-2910.	8.0	90
53	Data-Driven Reinforcement Learning-Based Real-Time Energy Management System for Plug-In Hybrid Electric Vehicles. <i>Transportation Research Record</i> , 2016, 2572, 1-8.	1.9	77
54	A Novel Blended Real-Time Energy Management Strategy for Plug-in Hybrid Electric Vehicle Commute Trips. , 2015, , .		17

#	ARTICLE	IF	CITATIONS
55	Developing a framework of Eco-Approach and Departure application for actuated signal control. , 2015, , .		30
56	Preliminary evaluation of field testing on Eco-Approach and Departure (EAD) application for actuated signals. , 2015, , .		10
57	Intelligent Transportation Systems and Greenhouse Gas Reductions. Current Sustainable/Renewable Energy Reports, 2015, 2, 90-97.	2.6	13
58	Evolutionary algorithm based on-line PHEV energy management system with self-adaptive SOC control. , 2015, , .		5
59	Development and Evaluation of an Intelligent Energy-Management Strategy for Plug-in Hybrid Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1091-1100.	8.0	84
60	Supplementary Benefits from Partial Vehicle Automation in an Ecoapproach and Departure Application at Signalized Intersections. Transportation Research Record, 2014, 2424, 66-75.	1.9	22
61	Platoon-based multi-agent intersection management for connected vehicle. , 2013, , .		77
62	Empirical Study of Lane-Changing Behavior along Different Types of High-Occupancy Vehicle Facilities in California. Transportation Research Record, 2013, 2396, 143-150.	1.9	7
63	Signal Optimization at Urban Highway Rail Grade Crossings Using an Online Adaptive Priority Strategy. Journal of Transportation Engineering, 2012, 138, 479-484.	0.9	10
64	Advanced intersection management for connected vehicles using a multi-agent systems approach. , 2012, , .		43
65	Dynamic Lane Grouping at Isolated Intersections: Problem Formulation and Performance Analysis. Transportation Research Record, 2012, 2311, 152-166.	1.9	16
66	Multi-Agent Intersection Management for Connected Vehicles Using an Optimal Scheduling Approach. , 2012, , .		44
67	Investigation of the impacts of signal timing on vehicle emissions at an isolated intersection. Transportation Research, Part D: Transport and Environment, 2011, 16, 409-414.	6.8	34
68	Energy and Emission Benefit Comparison of Stationary and In-Vehicle Advanced Driving Alert Systems. Transportation Research Record, 2010, 2189, 98-106.	1.9	36
69	Active Signal Priority for Light Rail Transit at Grade Crossings. Transportation Research Record, 2007, 2035, 141-149.	1.9	15
70	Distributed Consensus-Based Cooperative Highway On-Ramp Merging Using V2X Communications. , 0, , .		35
71	Cooperative Ramp Merging System: Agent-Based Modeling and Simulation Using Game Engine. SAE International Journal of Connected and Automated Vehicles, 0, 2, .	0.4	33