

Hesham Rakha

List of Publications by Year in descending order

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Version: 2024-02-01

331
papers

9,385
citations

46984

47
h-index

62565

80
g-index

345
all docs

345
docs citations

345
times ranked

5020
citing authors

#	ARTICLE	IF	CITATIONS
1	Network and station-level bike-sharing system prediction: a San Francisco bay area case study. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2022, 26, 602-612.	2.6	18
2	An in-depth spatiotemporal analysis of ride-hailing travel: The Chicago case study. Case Studies on Transport Policy, 2022, 10, 118-129.	1.1	10
3	Vehicle Platooning Impact on Drag Coefficients and Energy/Fuel Saving Implications. IEEE Transactions on Vehicular Technology, 2022, 71, 1199-1208.	3.9	31
4	Developing a Hydrogen Fuel Cell Vehicle (HFCV) Energy Consumption Model for Transportation Applications. Energies, 2022, 15, 529.	1.6	11
5	Quality of Service Measure for Bike Sharing Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15841-15849.	4.7	3
6	Developing and Field Testing a Green Light Optimal Speed Advisory System for Buses. Energies, 2022, 15, 1491.	1.6	7
7	A Smart City Signalized ECO-Cooperative Adaptive Cruise Control and Multi-objective Dynamic Routing System. , 2022, , .		0
8	Testing an Eco-Cooperative Adaptive Cruise Control System in a Large-scale Metropolitan Network. , 2022, , .		0
9	A Novel Dynamic Lane-Changing Trajectory Planning Model for Automated Vehicles Based on Reinforcement Learning. Journal of Advanced Transportation, 2022, 2022, 1-16.	0.9	5
10	Integrated Speed Harmonization and Platooning of Connected Automated Vehicles: Model Development and Large-Scale System Evaluation. SN Computer Science, 2022, 3, .	2.3	0
11	Eco-Driving at Signalized Intersections: A Multiple Signal Optimization Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2943-2955.	4.7	48
12	A rail transit simulation system for multi-modal energy-efficient routing applications. International Journal of Sustainable Transportation, 2021, 15, 187-202.	2.1	6
13	Sliding Mode Network Perimeter Control. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2933-2942.	4.7	15
14	Real-Time Estimation of Vehicle Counts on Signalized Intersection Approaches Using Probe Vehicle Data. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2719-2729.	4.7	20
15	A comparative analysis of e-scooter and e-bike usage patterns: Findings from the City of Austin, TX. International Journal of Sustainable Transportation, 2021, 15, 571-579.	2.1	60
16	COVID-19 pandemic impacts on traffic system delay, fuel consumption and emissions. International Journal of Transportation Science and Technology, 2021, 10, 184-196.	2.0	45
17	Development and Testing of a Novel Game Theoretic De-Centralized Traffic Signal Controller. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 231-242.	4.7	15
18	IoT-Based Crowd Management Framework for Departure Control and Navigation. IEEE Transactions on Vehicular Technology, 2021, 70, 95-106.	3.9	5

#	ARTICLE	IF	CITATIONS
19	A Cooperative Platooning Controller for Connected Vehicles. , 2021, , .		2
20	Validated Analytical Modeling of Diesel Engines Intake Manifold with a Flexible Crankshaft. Energies, 2021, 14, 1287.	1.6	1
21	INTEGRATION Large-Scale Modeling Framework of Direct Cellular Vehicle-to-All (C-V2X) Applications. Sensors, 2021, 21, 2127.	2.1	9
22	Predicting Coordinated Actuated Traffic Signal Change Times using Long Short-Term Memory Neural Networks. Transportation Research Record, 2021, 2675, 127-138.	1.0	5
23	A Novel Crowdsourcing Model for Micro-Mobility Ride-Sharing Systems. Sensors, 2021, 21, 4636.	2.1	7
24	Multi-objective Eco-Routing Model Development and Evaluation for Battery Electric Vehicles. Transportation Research Record, 2021, 2675, 867-879.	1.0	5
25	Toward a rational and ethical sociotechnical system of autonomous vehicles: A novel application of multi-criteria decision analysis. PLoS ONE, 2021, 16, e0256224.	1.1	8
26	Constructing a network fundamental diagram using a sample of connected vehicles and stationary sensors. Transportation Research Interdisciplinary Perspectives, 2021, 12, 100471.	1.6	0
27	Adaptive Traffic Signal Control: Game-Theoretic Decentralized vs. Centralized Perimeter Control. Sensors, 2021, 21, 274.	2.1	8
28	Joint Impact of Rain and Incidents on Traffic Stream Speeds. Journal of Advanced Transportation, 2021, 2021, 1-12.	0.9	2
29	The Fadhoun-Rakha Car-Following Model: A Novel Formulation Capturing Driver, Vehicle, Roadway, and Weather Variables. Communications in Computer and Information Science, 2021, , 255-278.	0.4	1
30	Impact of risk factors on work zone crashes using logistic models and Random Forest. , 2021, , .		4
31	Studying the Impact of Passenger Ride Choices on Passenger and Bus Travel Times. , 2021, , .		0
32	A Bayesian Neural Network-Based Method to Calibrate Microscopic Traffic Simulators. Journal of Advanced Transportation, 2021, 2021, 1-16.	0.9	0
33	A Cooperative Platooning Controller for Connected Vehicles. , 2021, , .		1
34	A Feasible Solution for Rebalancing Large-Scale Bike Sharing Systems. Sustainability, 2021, 13, 13433.	1.6	1
35	A Novel Supervised Clustering Algorithm for Transportation System Applications. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 222-232.	4.7	15
36	Dynamic linear models to predict bike availability in a bike sharing system. International Journal of Sustainable Transportation, 2020, 14, 232-242.	2.1	21

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37	A novel vehicle dynamics and human behavior car-following model: Model development and preliminary testing. International Journal of Transportation Science and Technology, 2020, 9, 14-28.	2.0	28
38	Decision Support Tool for Planning Neighborhood-Scale Deployment of Low-Speed Shared Automated Shuttles. Transportation Research Record, 2020, 2674, 1-14.	1.0	9
39	Eco Look-Ahead Control of Battery Electric Vehicles and Roadway Grade Effects. Transportation Research Record, 2020, 2674, 429-437.	1.0	1
40	Estimation of Traffic Stream Density Using Connected Vehicle Data: Linear and Nonlinear Filtering Approaches. Sensors, 2020, 20, 4066.	2.1	12
41	Developing Data-Driven Approaches for Traffic Density Estimation Using Connected Vehicle Data. IEEE Access, 2020, 8, 219622-219631.	2.6	8
42	Deep Transfer Learning for Vulnerable Road Users Detection using Smartphone Sensors Data. Remote Sensing, 2020, 12, 3508.	1.8	7
43	Aerosol tracking using lidar-based atmospheric profiling and Bayesian estimation. Optics and Laser Technology, 2020, 128, 106248.	2.2	2
44	Development of a Connected Vehicle Dynamic Freeway Variable Speed Controller. IEEE Access, 2020, 8, 99219-99226.	2.6	9
45	Battery Electric Vehicle Eco-Cooperative Adaptive Cruise Control in the Vicinity of Signalized Intersections. Energies, 2020, 13, 2433.	1.6	10
46	Application of Deep Learning for Characterization of Drivers'™ Engagement in Secondary Tasks in In-Vehicle Systems. Transportation Research Record, 2020, 2674, 429-440.	1.0	3
47	A Repeated Game Freeway Lane Changing Model. Sensors, 2020, 20, 1554.	2.1	24
48	Empirical Study of Effect of Dynamic Travel Time Information on Driver Route Choice Behavior. Sensors, 2020, 20, 3257.	2.1	10
49	Impact of Intersection Control on Battery Electric Vehicle Energy Consumption. Energies, 2020, 13, 3190.	1.6	5
50	A Validation Study of the Fadhloun-Rakha Car-following Model. , 2020, , .		1
51	Developing an Adaptive Connected Vehicle Transit Signal Priority Control System. , 2020, , .		2
52	Vehicle Platooning: An Energy Consumption Perspective. , 2020, , .		6
53	Real-time optimal intersection control system for automated/cooperative vehicles. International Journal of Transportation Science and Technology, 2019, 8, 1-12.	2.0	27
54	Computing optimum traffic signal cycle length considering vehicle delay and fuel consumption. Transportation Research Interdisciplinary Perspectives, 2019, 3, 100021.	1.6	22

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55	Steady-State Car-Following Time Gaps: An Empirical Study Using Naturalistic Driving Data. Journal of Advanced Transportation, 2019, 2019, 1-9.	0.9	16
56	VANET-Based Smart Navigation for Emergency Evacuation and Special Events. , 2019, , .		5
57	Developing a Neuralâ€“Kalman Filtering Approach for Estimating Traffic Stream Density Using Probe Vehicle Data. Sensors, 2019, 19, 4325.	2.1	17
58	Modeling bus passenger boarding/alighting times: A stochastic approach. Transportation Research Interdisciplinary Perspectives, 2019, 2, 100027.	1.6	6
59	On Influencing Individual Behavior for Reducing Transportation Energy Expenditure in a Large Population. , 2019, , .		1
60	A Novel Decentralized Game-Theoretic Adaptive Traffic Signal Controller: Large-Scale Testing. Sensors, 2019, 19, 2282.	2.1	17
61	Constructing a Network Fundamental Diagram: Synthetic Originâ€“Destination Approach. Transportation Research Record, 2019, 2673, 479-488.	1.0	2
62	A real-time vehicle-specific eco-routing model for on-board navigation applications capturing transient vehicle behavior. Transportation Research Part C: Emerging Technologies, 2019, 104, 1-21.	3.9	35
63	City-Wide Eco-Routing Navigation Considering Vehicular Communication Impacts. Sensors, 2019, 19, 290.	2.1	13
64	Modeling bike counts in a bike-sharing system considering the effect of weather conditions. Case Studies on Transport Policy, 2019, 7, 261-268.	1.1	51
65	Environmental Impact of Freight Signal Priority with Connected Trucks. Sustainability, 2019, 11, 6819.	1.6	6
66	Use of Life Cycle Cost Analysis and Multiple Criteria Decision Aid Tools for Designing Road Vertical Profiles. Sustainability, 2019, 11, 7127.	1.6	3
67	VANET-Based Smart Navigation for Vehicle Crowds: FIFA World Cup 2022 Case Study. , 2019, , .		8
68	Development and Testing of a Connected Vehicle Optimal Lane Selection Algorithm. , 2019, , .		1
69	Kalman Filter-based Vehicle Count Estimation Approach Using Probe Data: A Multi-lane Road Case Study. , 2019, , .		7
70	A New Mathematical Approach to Solve Bike Share System Station Imbalances Based On Portable Stations. , 2019, , .		1
71	Vulnerable Road User Detection Using Smartphone Sensors and Recurrence Quantification Analysis. , 2019, , .		3
72	Field implementation and testing of an automated eco-cooperative adaptive cruise control system in the vicinity of signalized intersections. Transportation Research, Part D: Transport and Environment, 2019, 67, 244-262.	3.2	36

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73	Ecological and safe driving: A model predictive control approach considering spatial and temporal constraints. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 67, 208-222.	3.2	23
74	A study of the environmental impacts of intelligent automated vehicle control at intersections via V2V and V2I communications. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2019, 23, 41-59.	2.6	26
75	The wireless control plane: An overview and directions for future research. <i>Journal of Network and Computer Applications</i> , 2019, 126, 104-122.	5.8	13
76	Developing an Optimal Intersection Control System for Automated Connected Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 1908-1916.	4.7	91
77	Macroscopic analysis of moving bottlenecks. <i>Transportation Letters</i> , 2019, 11, 516-526.	1.8	8
78	Smartphone Transportation Mode Recognition Using a Hierarchical Machine Learning Classifier and Pooled Features From Time and Frequency Domains. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 244-252.	4.7	38
79	A novel approach for estimation of dynamic from static origin-destination matrices. <i>Transportation Letters</i> , 2019, 11, 219-228.	1.8	15
80	City-Level Agent-Based Multi-modal Modeling of Transportation Networks: Model Development and Preliminary Testing. <i>Communications in Computer and Information Science</i> , 2019, , 279-303.	0.4	0
81	Large-Scale Modeling of VANET and Transportation Systems. , 2019, , 517-526.		0
82	Quantifying grade effects on vehicle fuel consumption for use in sustainable highway design. <i>International Journal of Sustainable Transportation</i> , 2018, 12, 441-451.	2.1	10
83	Longitudinal train dynamics model for a rail transit simulation system. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 86, 111-123.	3.9	28
84	Optimum routing of battery electric vehicles: Insights using empirical data and microsimulation. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 64, 262-272.	3.2	21
85	Incremental Learning Models of Bike Counts at Bike Sharing Systems. , 2018, , .		3
86	Comparison of Microscopic and Mesoscopic Traffic Modeling Tools for Evacuation Analysis. , 2018, , .		3
87	Optimal Lane Selection on Freeways within a Connected Vehicle Environment. , 2018, , .		9
88	Virginia Tech Comprehensive Powered-based Fuel Consumption Model: Modeling Compressed Natural Gas Buses. , 2018, , .		2
89	Modeling Driver Merging Behavior: A Repeated Game Theoretical Approach. <i>Transportation Research Record</i> , 2018, 2672, 144-153.	1.0	31
90	Microscopic series plug-in hybrid electric vehicle energy consumption model: Model development and validation. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 63, 175-185.	3.2	26

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91	VANET Communication Impact on a Dynamic Eco-Routing System Performance: Preliminary Results. , 2018, , .		5
92	Weather-Tuned Network Perimeter Control - A Network Fundamental Diagram Feedback Controller Approach. , 2018, , .		5
93	Large-scale Agent-based Multi-modal Modeling of Transportation Networks - System Model and Preliminary Results. , 2018, , .		5
94	Travel Time Modeling using Spatiotemporal Speed Variation and a Mixture of Linear Regressions. , 2018, , .		1
95	Merging Mobile Measurements, Traffic Emissions Models, and Land Use Regression Towards Real-Time Estimation of Traffic-Related Air Pollution. ISEE Conference Abstracts, 2018, 2018, .	0.0	0
96	Smart Bike-Sharing Systems for Smart Cities. , 2018, , 111-142.		1
97	Comparison of Three Approaches to Atmospheric Source Localization. Journal of Aerospace Information Systems, 2017, 14, 40-52.	1.0	8
98	Electric train energy consumption modeling. Applied Energy, 2017, 193, 346-355.	5.1	54
99	Feedback control speed harmonization algorithm: Methodology and preliminary testing. Transportation Research Part C: Emerging Technologies, 2017, 81, 209-226.	3.9	24
100	Validated analytical modelling of supercharging centrifugal compressors with vaneless diffusers for H2-biodiesel dual-fuel engines with cooled EGR. International Journal of Hydrogen Energy, 2017, 42, 26771-26786.	3.8	4
101	Heavy-Duty Diesel Truck Emissions Modeling. Transportation Research Record, 2017, 2627, 26-35.	1.0	4
102	Modeling bike availability in a bike-sharing system using machine learning. , 2017, , .		32
103	Reducing Vehicle Fuel Consumption and Delay at Signalized Intersections: Controlled-Field Evaluation of Effectiveness of Infrastructure-to-Vehicle Communication. Transportation Research Record, 2017, 2621, 10-20.	1.0	15
104	Validation of the Rakha-Pasumarthy-Adjerid car-following model for vehicle fuel consumption and emission estimation applications. Transportation Research, Part D: Transport and Environment, 2017, 55, 246-261.	3.2	19
105	Fuel consumption model for heavy duty diesel trucks: Model development and testing. Transportation Research, Part D: Transport and Environment, 2017, 55, 127-141.	3.2	68
106	Game Theoretical Approach to Model Decision Making for Merging Maneuvers at Freeway On-Ramps. Transportation Research Record, 2017, 2623, 19-28.	1.0	54
107	Eco-cooperative adaptive cruise control at multiple signalized intersections: Network-wide evaluation and sensitivity analysis. , 2017, , .		2
108	Developing a de-centralized cycle-free nash bargaining arterial traffic signal controller. , 2017, , .		10

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109	A heuristic for rebalancing bike sharing systems based on a deferred acceptance algorithm. , 2017, , .		10
110	Network-wide bike availability clustering using the college admission algorithm: A case study of San Francisco Bay area. , 2017, , .		4
111	Bike share travel time modeling: San Francisco bay area case study. , 2017, , .		3
112	Convex Fuel Consumption Model for Diesel and Hybrid Buses. Transportation Research Record, 2017, 2647, 50-60.	1.0	14
113	Modeling the Perception Reaction Time and Deceleration Level for Different Surface Conditions Using Machine Learning Techniques. Advances in Intelligent Systems and Computing, 2017, , 131-142.	0.5	5
114	Characterization of Driver Perception Reaction Time at the Onset of a Yellow Indication. Advances in Intelligent Systems and Computing, 2017, , 371-382.	0.5	5
115	An Automatic Traffic Congestion Identification Algorithm Based on Mixture of Linear Regressions. Communications in Computer and Information Science, 2017, , 242-256.	0.4	4
116	Aerosol detection using lidar-based atmospheric profiling. , 2017, , .		2
117	Spatiotemporal Traffic State Prediction Based on Discriminatively Pre-trained Deep Neural Networks. Advances in Science, Technology and Engineering Systems, 2017, 2, 678-686.	0.4	15
118	Validated analytical modeling of diesel engine regulated exhaust CO emission rate. Advances in Mechanical Engineering, 2016, 8, 168781401664598.	0.8	4
119	Multimodal Intelligent Traffic Signal System Simulation Model Development and Assessment. Transportation Research Record, 2016, 2558, 92-102.	1.0	10
120	Modeling Evaluation of Eco-Adaptive Cooperative Cruise Control in Vicinity of Signalized Intersections. Transportation Research Record, 2016, 2559, 108-119.	1.0	25
121	Proactive and reactive carpooling recommendation system based on spatiotemporal and geosocial data. , 2016, , .		2
122	Stretch-wide traffic state prediction using discriminatively pre-trained deep neural networks. , 2016, , .		6
123	Analysis of moving bottlenecks considering a triangular fundamental diagram. International Journal of Transportation Science and Technology, 2016, 5, 186-199.	2.0	4
124	Investigating cyclist violations at signal-controlled intersections using naturalistic cycling data. , 2016, , .		1
125	Isolated traffic signal control using a game theoretic framework. , 2016, , .		18
126	Freeway Speed Harmonization. IEEE Transactions on Intelligent Vehicles, 2016, 1, 78-89.	9.4	79

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127	Development and Preliminary Field Testing of an In-Vehicle Eco-Speed Control System in the Vicinity of Signalized Intersections. IFAC-PapersOnLine, 2016, 49, 249-254.	0.5	23
128	Multi-step prediction of experienced travel times using agent-based modeling. Transportation Research Part C: Emerging Technologies, 2016, 71, 108-121.	3.9	18
129	Red-light running violation prediction using observational and simulator data. Accident Analysis and Prevention, 2016, 96, 316-328.	3.0	60
130	Eco-Cooperative Adaptive Cruise Control at Signalized Intersections Considering Queue Effects. IEEE Transactions on Intelligent Transportation Systems, 2016, , 1-11.	4.7	88
131	Modeling Fuel Consumption of Hybrid Electric Buses: Model Development and Comparison with Conventional Buses. Transportation Research Record, 2016, 2539, 94-102.	1.0	16
132	Experimentally validated analytical modeling of diesel engine power and in-cylinder gas speed dynamics. Journal of Mechanical Science and Technology, 2016, 30, 4725-4734.	0.7	4
133	Fuel consumption model for conventional diesel buses. Applied Energy, 2016, 170, 394-402.	5.1	73
134	Power-based electric vehicle energy consumption model: Model development and validation. Applied Energy, 2016, 168, 257-268.	5.1	376
135	Leveraging Connected Vehicle Technology and Telematics to Enhance Vehicle Fuel Efficiency in the Vicinity of Signalized Intersections. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 33-44.	2.6	49
136	Development and Testing of a 3G/LTE Adaptive Data Collection System in Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 240-249.	4.7	27
137	Intersection Management via Vehicle Connectivity: The Intersection Cooperative Adaptive Cruise Control System Concept. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 17-32.	2.6	131
138	Deriving macroscopic fundamental diagrams from probe data: Issues and proposed solutions. Transportation Research Part C: Emerging Technologies, 2016, 66, 136-149.	3.9	62
139	Eco-routing: An Ant Colony based Approach. , 2016, , .		8
140	A Unified Real-time Automatic Congestion Identification Model Considering Weather and Roadway Visibility Conditions. , 2016, , .		2
141	Traffic Stream Short-term State Prediction using Machine Learning Techniques. , 2016, , .		0
142	Networkwide Impacts of Vehicle Ecospeed Control in the Vicinity of Traffic Signalized Intersections. Transportation Research Record, 2015, 2503, 91-99.	1.0	35
143	Eco-Routing Using V2I Communication: System Evaluation. , 2015, , .		11
144	Real-Time Emissions Modeling with Environmental Protection Agency MOVES. Transportation Research Record, 2015, 2503, 60-69.	1.0	3

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145	Modeling Diesel and Hybrid Bus Fuel Consumption with Virginia Tech Comprehensive Power-Based Fuel Consumption Model: Model enhancements and Calibration issues. Transportation Research Record, 2015, 2533, 100-108.	1.0	5
146	Vehicle Dynamics Model for Estimating Typical Vehicle Accelerations. Transportation Research Record, 2015, 2491, 61-71.	1.0	27
147	Design of Traffic Signal Clearance Intervals to Consider Impacts of Buses. Transportation Research Record, 2015, 2492, 33-45.	1.0	0
148	Study of Truck Driver Behavior for Design of Traffic Signal Yellow and Clearance Timings. Transportation Research Record, 2015, 2488, 62-70.	1.0	6
149	Automatic Congestion Identification with Two-Component Mixture Models. Transportation Research Record, 2015, 2489, 11-19.	1.0	8
150	Survey on In-vehicle Technology Use: Results and Findings. International Journal of Transportation Science and Technology, 2015, 4, 135-149.	2.0	11
151	An Integrated Architecture for Simulation and Modeling of Small- and Medium-Sized Transportation and Communication Networks. Communications in Computer and Information Science, 2015, , 282-303.	0.4	5
152	Developing a System Architecture for Cyclist Violation Prediction Models Incorporating Naturalistic Cycling Data. Procedia Manufacturing, 2015, 3, 5543-5550.	1.9	3
153	Applying Machine Learning Techniques to Transportation Mode Recognition Using Mobile Phone Sensor Data. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2406-2417.	4.7	212
154	Design and Evaluation of Network Control Strategies Using the Macroscopic Fundamental Diagram. , 2015, , .		0
155	Adopting Machine Learning Methods to Predict Red-light Running Violations. , 2015, , .		27
156	An Intersection Game-Theory-Based Traffic Control Algorithm in a Connected Vehicle Environment. , 2015, , .		84
157	Modeling driver stop/run behavior at the onset of a yellow indication considering driver run tendency and roadway surface conditions. Accident Analysis and Prevention, 2015, 83, 90-100.	3.0	26
158	Classification of Driver Stop/Run Behavior at the Onset of a Yellow Indication for Different Vehicles and Roadway Surface Conditions Using Historical Behavior. Procedia Manufacturing, 2015, 3, 858-865.	1.9	12
159	Method of generating strategic guidance information for driving evacuation flows to approach safety-based system optimal dynamic flows: Case study of a large stadium. Journal of Systems Science and Complexity, 2015, 28, 606-622.	1.6	4
160	Analysis of inertial choice behavior based expected and experienced savings from a real-world route choice experiment. International Journal of Transportation, 2015, 3, 11-28.	0.4	3
161	VNetIntSim - An Integrated Simulation Platform to Model Transportation and Communication Networks. , 2015, , .		5
162	Impact of Intelligent Transportation Systems on Vehicle Fuel Consumption and Emission Modeling: An Overview. SAE International Journal of Materials and Manufacturing, 2014, 7, 129-146.	0.3	8

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163	Experimentally validated analytical modeling of diesel exhaust HC emission rate. Journal of Mechanical Science and Technology, 2014, 28, 4139-4149.	0.7	5
164	Impact of underlying steady-state fundamental diagram on moving bottleneck passing rates using a second-order traffic model. Transportation Letters, 2014, 6, 185-196.	1.8	10
165	A Fully-Distributed Heuristic Algorithm for Control of Autonomous Vehicle Movements at Isolated Intersections. International Journal of Transportation Science and Technology, 2014, 3, 297-309.	2.0	24
166	Dynamic travel time prediction using data clustering and genetic programming. Transportation Research Part C: Emerging Technologies, 2014, 42, 82-98.	3.9	52
167	MODELING AND ESTIMATING THE CAPACITY OF URBAN TRANSPORTATION NETWORK WITH RAPID TRANSIT. Transport, 2014, 29, 165-174.	0.6	12
168	Real-time travel time prediction using particle filtering with a non-explicit state-transition model. Transportation Research Part C: Emerging Technologies, 2014, 43, 112-126.	3.9	59
169	Enhancing and Calibrating the Rakha-Pasumarthy-Adjerid Car-Following Model using Naturalistic Driving Data. International Journal of Transportation Science and Technology, 2014, 3, 229-247.	2.0	14
170	Analytical model of diesel engines exhaust NOx emission rate. International Journal of Vehicle Systems Modelling and Testing, 2014, 9, 264.	0.1	4
171	Designing Traffic Signal Yellow and Change Intervals considering Truck Impacts. Transportation Research Record, 2014, 2438, 33-44.	1.0	2
172	Comprehensive Framework for Estimating Traffic Stream Flow Rates past Moving Bottlenecks. Transportation Research Record, 2014, 2422, 61-70.	1.0	8
173	Enhanced Modeling of Driver Stop-or-Run Actions at a Yellow Indication. Transportation Research Record, 2014, 2423, 24-34.	1.0	9
174	Ecolane Applications. Transportation Research Record, 2014, 2427, 41-53.	1.0	4
175	Agent-Based Simulation of Ecospeed-Controlled Vehicles at Signalized Intersections. Transportation Research Record, 2014, 2427, 1-12.	1.0	10
176	Virginia Tech Comprehensive Power-Based Fuel Consumption Model. Transportation Research Record, 2014, 2428, 1-9.	1.0	18
177	Supercharged diesel powertrain intake manifold analytical model. International Journal of Vehicle Systems Modelling and Testing, 2014, 9, 1.	0.1	5
178	Can We Model Driver Perceptions? An In-Situ Experiment in Real-World Conditions. International Journal of Transportation Science and Technology, 2014, 3, 149-165.	2.0	2
179	Optimizing Network Flows with Congestion-Based Flow Reductions. Networks and Spatial Economics, 2013, 13, 283-306.	0.7	7
180	Network-wide impacts of eco-routing strategies: A large-scale case study. Transportation Research, Part D: Transport and Environment, 2013, 25, 119-130.	3.2	76

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181	Application of Naturalistic Driving Data to Modeling of Driver Car-Following Behavior. Transportation Research Record, 2013, 2390, 20-33.	1.0	53
182	A methodology for assessing eco-cruise control for passenger vehicles. Transportation Research, Part D: Transport and Environment, 2013, 19, 20-27.	3.2	54
183	Dr. Hesham Rakha [ITS People]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 160-162.	2.6	0
184	Evaluation of Continuous Green T-Intersections on Isolated Undersaturated Four-Lane Highways. Transportation Research Record, 2013, 2348, 19-29.	1.0	3
185	An automated statistically-principled bottleneck identification algorithm (ASBIA). , 2013, , .		5
186	Multi-stage dynamic programming algorithm for eco-speed control at traffic signalized intersections. , 2013, , .		58
187	Public perception on increasing use of technology in automobiles: Survey findings. , 2013, , .		1
188	Assessment of Alternative Polynomial Fuel Consumption Models for Use in Intelligent Transportation Systems Applications. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2013, 17, 294-303.	2.6	37
189	Microscopic resource assignment model and Lagrangian relaxation based algorithm for train operation scheduling in railway station. , 2013, , .		1
190	Evaluation of Driver Perceptionâ€“Reaction Time under Rainy or Wet Roadway Conditions at Onset of Yellow Indication. Transportation Research Record, 2013, 2384, 18-24.	1.0	9
191	Ecodrive Application. Transportation Research Record, 2013, 2341, 1-11.	1.0	43
192	Evaluation of Impact of Modern Headlamp Technology on Design Criteria for Sag Vertical Curves. Transportation Research Record, 2013, 2384, 65-73.	1.0	2
193	Virginia Tech Comprehensive Power-based Fuel Consumption Model (VT-CPFM): Model Validation and Calibration Considerations. International Journal of Transportation Science and Technology, 2013, 2, 317-336.	2.0	37
194	Enhancing Roundabout Operations via Vehicle Connectivity. Transportation Research Record, 2013, 2381, 91-100.	1.0	15
195	Fuel Economy Impacts of Manual, Conventional Cruise Control, and Predictive Eco-Cruise Control Driving. International Journal of Transportation Science and Technology, 2013, 2, 227-242.	2.0	14
196	Can Electricity Powered Vehicles Serve Traveler Needs?. International Journal of Transportation Science and Technology, 2013, 2, 123-140.	2.0	2
197	Latent Class Choice Model of Heterogeneous Drivers' Route Choice Behavior Based on Learning in a Real-World Experiment. Transportation Research Record, 2013, 2334, 84-94.	1.0	14
198	Imputing Erroneous Data of Single-Station Loop Detectors for Nonincident Conditions: Comparison Between Temporal and Spatial Methods. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2012, 16, 159-176.	2.6	54

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