Hussein Dia

List of Publications by Year in descending order

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42 papers	2,195 citations	430754 18 h-index	377752 34 g-index
45 all docs	45 docs citations	45 times ranked	1751 citing authors

#	Article	IF	Citations
1	An object-oriented neural network approach to short-term traffic forecasting. European Journal of Operational Research, 2001, 131, 253-261.	3.5	330
2	Applications of Artificial Intelligence in Transport: An Overview. Sustainability, 2019, 11, 189.	1.6	299
3	An agent-based approach to modelling driver route choice behaviour under the influence of real-time information. Transportation Research Part C: Emerging Technologies, 2002, 10, 331-349.	3.9	259
4	Comparative Evaluation of Microscopic Car-Following Behavior. IEEE Transactions on Intelligent Transportation Systems, 2005, 6, 314-325.	4.7	229
5	The role of micro-mobility in shaping sustainable cities: A systematic literature review. Transportation Research, Part D: Transport and Environment, 2021, 92, 102734.	3.2	173
6	Neural Agent Car-Following Models. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 60-70.	4.7	110
7	Planning support systems for smart cities. City, Culture and Society, 2018, 12, 13-24.	1.1	100
8	Development and evaluation of neural network freeway incident detection models using field data. Transportation Research Part C: Emerging Technologies, 1997, 5, 313-331.	3.9	95
9	Autonomous Shared Mobility-On-Demand: Melbourne Pilot Simulation Study. Transportation Research Procedia, 2017, 22, 285-296.	0.8	78
10	Development and evaluation of arterial incident detection models using fusion of simulated probe vehicle and loop detector data. Information Fusion, 2011, 12, 20-27.	11.7	62
11	Modelling drivers' compliance and route choice behaviour in response to travel information. Nonlinear Dynamics, 2007, 49, 493-509.	2.7	61
12	Unidirectional and Bidirectional LSTM Models for Short-Term Traffic Prediction. Journal of Advanced Transportation, 2021, 2021, 1-16.	0.9	56
13	Flexible Mobility On-Demand: An Environmental Scan. Sustainability, 2019, 11, 1262.	1.6	46
14	Blockchain: The operating system of smart cities. Cities, 2021, 112, 103104.	2.7	39
15	Exploring the performance of autonomous mobility on-demand systems under demand uncertainty. Transportmetrica A: Transport Science, 2019, 15, 698-721.	1.3	25
16	Development and evaluation of bidirectional LSTM freeway traffic forecasting models using simulation data. Scientific Reports, 2021, 11, 23899.	1.6	23
17	Modeling Operating Speed Using Continuous Speed Profiles on Two-Lane Rural Highways in India. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	21
18	Evaluation of Transportation Infrastructure Management Strategies Using Microscopic Traffic Simulation. Journal of Infrastructure Systems, 2007, 13, 168-174.	1.0	19

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19	Speed prediction models for heavy passenger vehicles on rural highways based on an instrumented vehicle study. Transportation Letters, 2022, 14, 39-48.	1.8	15
20	Short-Term Traffic Forecasting: An LSTM Network for Spatial-Temporal Speed Prediction. Future Transportation, 2021, 1, 21-37.	1.3	15
21	A systematic review of the impacts of the coronavirus crisis on urban transport: Key lessons learned and prospects for future cities. Cities, 2022, 127, 103770.	2.7	14
22	EVALUATION OF A DYNAMIC SIGNAL OPTIMISATION CONTROL MODEL USING TRAFFIC SIMULATION. IATSS Research, 2005, 29, 22-30.	1.8	12
23	AI-based neural network models for bus passenger demand forecasting using smart card data. Journal of Urban Management, 2022, 11, 365-380.	2.3	12
24	An Agent-Based Simulation Approach for Evaluating the Performance of On-Demand Bus Services. Sustainability, 2020, 12, 4117.	1.6	10
25	Impact of Driving Behaviour on Emissions and Road Network Performance. , 2015, , .		9
26	A Field Study of Internet of Things-Based Solutions for Automatic Passenger Counting. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 384-401.	2.6	9
27	Performance Evaluation of Station-Based Autonomous On-Demand Car-Sharing Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7721-7732.	4.7	8
28	Evaluation of discrete choice and neural network approaches for modelling driver compliance with traffic information. Transportmetrica, 0, , 1-22.	1.8	7
29	Modeling Acceleration and Deceleration Rates for Two-Lane Rural Highways Using Global Positioning System Data. Journal of Advanced Transportation, 2021, 2021, 1-17.	0.9	7
30	A Systematic Review of the Role of Road Network Pricing in Shaping Sustainable Cities: Lessons Learned and Opportunities for a Post-Pandemic World. Sustainability, 2021, 13, 12048.	1.6	7
31	Traffic Impact Assessment of Incident Management Strategies. , 2008, , .		6
32	Exploring Maximum and Minimum Operating Speed Positions on Road Geometric Elements Using Continuous Speed Data. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	0.8	6
33	Neural Agent (Neugent) Models of Driver Behavior for Supporting ITS Simulations. International Journal of Intelligent Transportation Systems Research, 2011, 9, 23-36.	0.6	5
34	Evaluation of motorized two-wheeler rider responses towards jaywalking pedestrians through mockup control studies for urban streets. Transportation Research Part F: Traffic Psychology and Behaviour, 2022, 84, 393-406.	1.8	5
35	Intelligent Mobility for Smart Cities: Driver Behaviour Models for Assessment of Sustainable Transport. , 2014, , .		3
36	A Bibliometric Overview of IEEE Transactions on Intelligent Transportation Systems (2000â€“2021). IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14066-14087.	4.7	3

#	Article	IF	Citations
37	Development and evaluation of relationships between surface condition rating and objective pavement condition parameters. International Journal of Pavement Engineering, 2022, 23, 3386-3397.	2.2	2
38	Development and Evaluation of Simulation-Based Low Carbon Mobility Assessment Models. Future Transportation, 2021, 1, 134-153.	1.3	2
39	Technology-Led Disruptions and Innovations: The Trends Transforming Urban Mobility. , 2020, , 1-36.		2
40	Exploring System Characteristics of Autonomous Mobility On-Demand Systems Under Varying Travel Demand Patterns. , 2019, , 299-315.		1
41	Simulation-based Assessments of Smart Mobility Strategies. Series on Computers and Operations Research, 2017, , 189-218.	0.2	0
42	Technology-Led Disruptions and Innovations: The Trends Transforming Urban Mobility. , 2021, , 1163-1198.		0