Meead Saberi Kalaee

List of Publications by Year
in descending order

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71	2,212	230014	274796
papers	citations	27 h-index	44 g-index

74	74	74	1743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Developing urban biking typologies: Quantifying the complex interactions of bicycle ridership, bicycle network and built environment characteristics. Environment and Planning B: Urban Analytics and City Science, 2023, 50, 7-23.	1.0	3
2	Dynamic pricing and penalty strategies in a coupled market with ridesourcing service and taxi considering time-dependent order cancellation behaviour. Transportation Research Part C: Emerging Technologies, 2022, 138, 103621.	3.9	10
3	Network traffic instability with automated driving and cooperative merging. Transportation Research Part C: Emerging Technologies, 2022, 138, 103626.	3.9	15
4	Calibration of the intelligent driver model (IDM) with adaptive parameters for mixed autonomy traffic using experimental trajectory data. Transportmetrica B, 2022, 10, 421-440.	1.4	9
5	Distance-based time-dependent optimal ratio control scheme (TORCS) in congested mixed autonomy networks. Transportation Research Part C: Emerging Technologies, 2022, 141, 103760.	3.9	4
6	Capacity allocation and tolling-rewarding schemes for the morning commute with carpooling. Transportation Research Part C: Emerging Technologies, 2022, 142, 103789.	3.9	5
7	Detection of anomalous vehicles using physics of traffic. Vehicular Communications, 2021, 27, 100304.	2.7	6
8	Simulation-based optimization of toll pricing in large-scale urban networks using the network fundamental diagram: A cross-comparison of methods. Transportation Research Part C: Emerging Technologies, 2021, 122, 102894.	3.9	25
9	Mapping Urban Environmental Performance with Emerging Data Sources: A Case of Urban Greenery and Traffic Noise in Sydney, Australia. Sustainability, 2021, 13, 605.	1.6	12
10	An Open GMNS Dataset of a Dynamic Multi-Modal Transportation Network Model of Melbourne, Australia. Data, 2021, 6, 21.	1.2	1
11	Understanding the Lived Experiences of Housing and Transport Stress in the â€œAffordableâ€•Outer Ring: A Case Study of Melbourne, Australia. Urban Policy and Research, 2021, 39, 191-207.	0.8	4
12	Comparing Dynamic User Equilibrium and Noniterative Stochastic Route Choice in a Simulation-Based Dynamic Traffic Assignment Model: Practical Considerations for Large-Scale Networks. Journal of Advanced Transportation, 2021, 2021, 1-16.	0.9	10
13	A macro-micro approach to modeling parking. Transportation Research Part B: Methodological, 2021, 147, 220-244.	2.8	18
14	Automated extraction of origin-destination demand for public transportation from smartcard data with pattern recognition. Transportation Research Part C: Emerging Technologies, 2021, 129, 103210.	3.9	6
15	Joint routing and pricing control in congested mixed autonomy networks. Transportation Research Part C: Emerging Technologies, 2021, 131, 103338.	3.9	16
16	Hâˆž robust perimeter flow control in urban networks with partial information feedback. Transportation Research Part B: Methodological, 2020, 137, 47-73.	2.8	51
17	Macroscopic parking dynamics modeling and optimal real-time pricing considering cruising-for-parking. Transportation Research Part C: Emerging Technologies, 2020, 118, 102714.	3.9	45
18	Accounting for Underreporting in Mathematical Modeling of Transmission and Control of COVID-19 in Iran. Frontiers in Physics, 2020, 8, .	1.0	16

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19	Integration of Departure Time Choice Modeling and Dynamic Originâ€“Destination Demand Estimation in a Large-Scale Network. Transportation Research Record, 2020, 2674, 972-981.	1.0	5
20	Modeling and managing ridesharing in a multi-modal network with an aggregate traffic representation: A doubly dynamical approach. Transportation Research Part C: Emerging Technologies, 2020, 117, 102670.	3.9	29
21	Estimating network travel time reliability with network partitioning. Transportation Research Part C: Emerging Technologies, 2020, 112, 46-61.	3.9	39
22	A simple contagion process describes spreading of traffic jams in urban networks. Nature Communications, 2020, 11, 1616.	5.8	81
23	Geographic variations in reported and treated pain and mental health problems in the first two years after transport-related major trauma. Journal of Transport and Health, 2019, 14, 100581.	1.1	7
24	A macroscopic approach for calibration and validation of a modified social force model for bidirectional pedestrian streams. Transportmetrica A: Transport Science, 2019, 15, 1637-1661.	1.3	29
25	Revealing latent characteristics of mobility networks with coarse-graining. Scientific Reports, 2019, 9, 7545.	1.6	22
26	Traffic State Estimation in Heterogeneous Networks with Stochastic Demand and Supply: Mixed Lagrangianâ€“Eulerian Approach. Transportation Research Record, 2019, 2673, 114-126.	1.0	11
27	Surrogateâ€based toll optimization in a largeâ€scale heterogeneously congested network. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 638-653.	6.3	30
28	Nonlinearity in Time-Dependent Origin-Destination Demand Estimation in Congested Networks. , 2019, , .		2
29	A bi-partitioning approach to congestion pattern recognition in a congested monocentric city. Transportation Research Part C: Emerging Technologies, 2019, 109, 305-320.	3.9	24
30	A Simulation-Based Optimization Framework for Urban Congestion Pricing Considering Travelersâ€™ Departure Time Rescheduling. , 2019, , .		3
31	Analytical derivation of the optimal traffic signal timing: Minimizing delay variability and spillback probability for undersaturated intersections. Transportation Research Part B: Methodological, 2019, 119, 45-68.	2.8	25
32	A Complex Network Methodology for Travel Demand Model Evaluation and Validation. Networks and Spatial Economics, 2018, 18, 1051-1073.	0.7	10
33	A resource allocation problem to estimate network fundamental diagram in heterogeneous networks: Optimal locating of fixed measurement points and sampling of probe trajectories. Transportation Research Part C: Emerging Technologies, 2018, 86, 245-262.	3.9	31
34	Congestion pricing practices and public acceptance: A review of evidence. Case Studies on Transport Policy, 2018, 6, 94-101.	1.1	102
35	Pedestrian crowd dynamics in merging sections: Revisiting the â€œfaster-is-slowerâ€•phenomenon. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 101-111.	1.2	58
36	A big data approach for clustering and calibration of link fundamental diagrams for large-scale network simulation applications. Transportation Research Part C: Emerging Technologies, 2018, 94, 151-171.	3.9	19

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37	Understanding the impacts of a public transit disruption on bicycle sharing mobility patterns: A case of Tube strike in London. Journal of Transport Geography, 2018, 66, 154-166.	2.3	108
38	Macroscopic dynamics and the collapse of urban traffic. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12654-12661.	3.3	40
39	Comparing Survival Analysis and Discrete Choice Specifications Simulating Dynamics of Vehicle Ownership. Transportation Research Record, 2018, 2672, 34-45.	1.0	8
40	Calibration and validation of a simulation-based dynamic traffic assignment model for a large-scale congested network. Simulation Modelling Practice and Theory, 2018, 86, 169-186.	2.2	52
41	Optimal distance- and time-dependent area-based pricing with the Network Fundamental Diagram. Transportation Research Part C: Emerging Technologies, 2018, 95, 1-28.	3.9	70
42	A complex network perspective for characterizing urban travel demand patterns: graph theoretical analysis of large-scale originâ€“destination demand networks. Transportation, 2017, 44, 1383-1402.	2.1	70
43	The effect of variations in spatial units on unobserved heterogeneity in macroscopic crash models. Analytic Methods in Accident Research, 2017, 13, 28-51.	4.7	48
44	Delay Variability Optimization Using Shockwave Theory at an Undersaturated Intersection. IFAC-PapersOnLine, 2017, 50, 5289-5294.	0.5	6
45	A Big Data Approach for Clustering and Calibration of Link Fundamental Diagrams for Large-Scale Network Simulation Applications. Transportation Research Procedia, 2017, 23, 901-921.	0.8	9
46	Measuring housing and transportation affordability: A case study of Melbourne, Australia. Journal of Transport Geography, 2017, 65, 134-146.	2.3	44
47	Sensitivity-Based Linear Approximation Method to Estimate Time-Dependent Originâ€“Destination Demand in Congested Networks. Transportation Research Record, 2017, 2669, 72-79.	1.0	14
48	A Complex Network Analysis of Macroscopic Structure of Taxi Trips. IFAC-PapersOnLine, 2017, 50, 9432-9437.	0.5	8
49	Pedestrian Crowd Dynamics Observed at Merging Sections: Impact of Designs on Movement Efficiency. Transportation Research Record, 2017, 2622, 48-57.	1.0	30
50	Calibration of traffic flow fundamental diagrams for network simulation applications: A two-stage clustering approach. , 2016, , .		0
51	Application of an exact gradient method to estimate dynamic origin-destination demand for melbourne network. , 2016, , .		2
52	Insights Toward Characteristics of Merging Streams of Pedestrian Crowds Based on Experiments with Panicked Ants. Transportation Research Record, 2016, 2561, 81-88.	1.0	25
53	A solution to the road network design problem for multimodal flow. , 2016, , .		0
54	Macroscopic modeling of pedestrian and bicycle crashes: A cross-comparison of estimation methods. Accident Analysis and Prevention, 2016, 93, 147-159.	3.0	99

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55	Activity-Based Model with Dynamic Traffic Assignment and Consideration of Heterogeneous User Preferences and Reliability Valuation. Transportation Research Record, 2015, 2493, 78-87.	1.0	19
56	Impact of Crime Statistics on Travel Mode Choice. Transportation Research Record, 2015, 2537, 81-87.	1.0	20
57	Spatial fluctuations of pedestrian velocities in bidirectional streams: Exploring the effects of self-organization. Physica A: Statistical Mechanics and Its Applications, 2015, 434, 120-128.	1.2	32
58	Network capacity, traffic instability, and adaptive driving: findings from simulated urban network experiments. EURO Journal on Transportation and Logistics, 2015, 3, 289-308.	1.3	38
59	Estimating Network Fundamental Diagram Using Three-Dimensional Vehicle Trajectories. Transportation Research Record, 2014, 2422, 12-20.	1.0	68
60	Dynamics of Urban Network Traffic flow during a Large-Scale Evacuation. Transportation Research Record, 2014, 2422, 21-33.	1.0	18
61	Exploring Areawide Dynamics of Pedestrian Crowds. Transportation Research Record, 2014, 2421, 31-40.	1.0	24
62	Urban network gridlock: Theory, characteristics, and dynamics. Transportation Research Part C: Emerging Technologies, 2013, 36, 480-497.	3.9	169
63	Urban Network Gridlock: Theory, Characteristics, and Dynamics. Procedia, Social and Behavioral Sciences, 2013, 80, 79-98.	0.5	50
64	Modeling the airline hub location and optimal market problems with continuous approximation techniques. Journal of Transport Geography, 2013, 30, 68-76.	2.3	14
65	Connecting Networkwide Travel Time Reliability and the Network Fundamental Diagram of Traffic Flow. Transportation Research Record, 2013, 2391, 80-91.	1.0	51
66	Implementation and Evaluation of Weather-Responsive Traffic Management Strategies. Transportation Research Record, 2013, 2396, 93-106.	1.0	27
67	Hysteresis and Capacity Drop Phenomena in Freeway Networks. Transportation Research Record, 2013, 2391, 44-55.	1.0	73
68	Calibration of Traffic Flow Models under Adverse Weather and Application in Mesoscopic Network Simulation. Transportation Research Record, 2013, 2391, 92-104.	1.0	50
69	Definition and Properties of Alternative Bus Service Reliability Measures at the Stop Level. Journal of Public Transportation, 2013, 16, 97-122.	0.3	25
70	Continuous Approximation Model for the Vehicle Routing Problem for Emissions Minimization at the Strategic Level. Journal of Transportation Engineering, 2012, 138, 1368-1376.	0.9	31
71	Exploring Properties of Networkwide Flowâ€“Density Relations in a Freeway Network. Transportation Research Record, 2012, 2315, 153-163.	1.0	83