

Lijun Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,628

citations

21

h-index

39

g-index

69

ext. papers

2,168

ext. citations

5.6

avg, IF

5.7

L-index

#	Paper	IF	Citations
66	The twenty-first century of structural engineering research: A topic modeling approach. <i>Structures</i> , 2022 , 35, 577-590	3.4	0
65	Bayesian Kernelized Matrix Factorization for Spatiotemporal Traffic Data Imputation and Kriging. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-13	6.1	2
64	A Universal Framework of Spatiotemporal Bias Block for Long-Term Traffic Forecasting. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-12	6.1	1
63	Quantifying out-of-station waiting time in oversaturated urban metro systems. <i>Communications in Transportation Research</i> , 2022 , 2, 100052		0
62	Real-time dispatching of operating buses during unplanned disruptions to urban rail transit system. <i>Transportation Research Part C: Emerging Technologies</i> , 2022 , 139, 103696	8.4	
61	Applying Data Mining Approaches for Analyzing Hazardous Materials Transportation Accidents on Different Types of Roads. <i>Sustainability</i> , 2021 , 13, 12773	3.6	0
60	Pavement distress detection using convolutional neural network (CNN): A case study in Montreal, Canada. <i>International Journal of Transportation Science and Technology</i> , 2021 ,	3.3	6
59	Characterizing Flight Delay Profiles with a Tensor Factorization Framework. <i>Engineering</i> , 2021 , 7, 465-470.	3.7	3
58	Modeling bike-sharing demand using a regression model with spatially varying coefficients. <i>Journal of Transport Geography</i> , 2021 , 93, 103059	5.2	3
57	Scoot over: Determinants of shared electric scooter presence in Washington D.C. <i>Case Studies on Transport Policy</i> , 2021 , 9, 418-430	2.7	6
56	Incorporating travel behavior regularity into passenger flow forecasting. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 128, 103200	8.4	5
55	Probabilistic model for destination inference and travel pattern mining from smart card data. <i>Transportation</i> , 2021 , 48, 2035-2053	4	4
54	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	3
53	Bayesian Temporal Factorization for Multidimensional Time Series Prediction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	20
52	Diagnosing Spatiotemporal Traffic Anomalies With Low-Rank Tensor Autoregression. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	1
51	Scaling of contact networks for epidemic spreading in urban transit systems. <i>Scientific Reports</i> , 2021 , 11, 4408	4.9	9
50	Impact of COVID-19-Related Traffic Slowdown on Urban Heat Characteristics. <i>Atmosphere</i> , 2021 , 12, 243	2.7	12

49	Integrating probabilistic tensor factorization with Bayesian supervised learning for dynamic ridesharing pattern analysis. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 124, 102916	8.4	7
48	Scalable low-rank tensor learning for spatiotemporal traffic data imputation. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 129, 103226	8.4	8
47	Deep Learning-Based Super-Resolution Climate Simulator-Emulator Framework for Urban Heat Studies. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094737	4.9	1
46	Incremental Bayesian matrix/tensor learning for structural monitoring data imputation and response forecasting. <i>Mechanical Systems and Signal Processing</i> , 2021 , 158, 107734	7.8	10
45	Influence of in-vehicle crowding on passenger travel time value: Insights from bus transit in Shanghai, China. <i>International Journal of Transportation Science and Technology</i> , 2021 ,	3.3	2
44	Dynamic holding control to avoid bus bunching: A multi-agent deep reinforcement learning framework. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 116, 102661	8.4	33
43	A nonconvex low-rank tensor completion model for spatiotemporal traffic data imputation. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 117, 102673	8.4	31
42	Speed choice behaviour-based methodology for evaluating the effects of pavement roughness on travel time cost and discomfort cost. <i>International Journal of Pavement Engineering</i> , 2020 , 1-13	2.6	
41	Spatio-Temporal Usage Patterns of Dockless Bike-Sharing Service Linking to a Metro Station: A Case Study in Shanghai, China. <i>Sustainability</i> , 2020 , 12, 851	3.6	7
40	Left-Side On-Ramp Metering for Improving Safety and Efficiency in Underground Expressway Systems. <i>Sustainability</i> , 2019 , 11, 3247	3.6	3
39	Quantifying privacy vulnerability of individual mobility traces: A case study of license plate recognition data. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 104, 78-94	8.4	9
38	Propagation Index on Airport Delays. <i>Transportation Research Record</i> , 2019 , 2673, 536-543	1.7	4
37	Urban Human Mobility. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2019 , 21, 1-19	4.6	22
36	Optimizing fleet size and scheduling of feeder transit services considering the influence of bike-sharing systems. <i>Journal of Cleaner Production</i> , 2019 , 236, 117550	10.3	24
35	Optimal Layout of Static Guidance Information in Comprehensive Transportation Hubs Based on Passenger Pathfinding Behavior. <i>Sustainability</i> , 2019 , 11, 3684	3.6	1
34	A Probabilistic Tensor Factorization Approach to Detect Anomalies in Spatiotemporal Traffic Activities 2019 ,		6
33	A Bayesian tensor decomposition approach for spatiotemporal traffic data imputation. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 98, 73-84	8.4	105
32	Small cities face greater impact from automation. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	34

31	Detecting reciprocity at a global scale. <i>Science Advances</i> , 2018 , 4, eaao5348	14.3	12
30	Unpacking the polarization of workplace skills. <i>Science Advances</i> , 2018 , 4, eaao6030	14.3	47
29	Heterogeneity in Valuation of Travel Time Reliability and In-Vehicle Crowding for Mode Choices in Multimodal Networks. <i>Journal of Transportation Engineering Part A: Systems</i> , 2018 , 144, 04018061	1.5	10
28	A hierarchical mixture modeling framework for population synthesis. <i>Transportation Research Part B: Methodological</i> , 2018 , 114, 199-212	7.2	22
27	Identifying Station-Link Correlation for Target Passenger Flow Control in Subway Network 2018 ,		1
26	Short-Term Origin-Destination Based Metro Flow Prediction with Probabilistic Model Selection Approach. <i>Journal of Advanced Transportation</i> , 2018 , 2018, 1-15	1.9	14
25	Discovering themes and trends in transportation research using topic modeling. <i>Transportation Research Part C: Emerging Technologies</i> , 2017 , 77, 49-66	8.4	120
24	Coauthorship network in transportation research. <i>Transportation Research, Part A: Policy and Practice</i> , 2017 , 100, 135-151	3.7	18
23	Effectiveness of Vegetable Oils as Rejuvenators for Aged Asphalt Binders. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29,	3	69
22	Understanding urban mobility patterns with a probabilistic tensor factorization framework. <i>Transportation Research Part B: Methodological</i> , 2016 , 91, 511-524	7.2	95
21	Valuation of sitting and standing in metro trains using revealed preferences. <i>Transport Policy</i> , 2016 , 47, 94-104	5.7	54
20	Quantifying long-term evolution of intra-urban spatial interactions. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20141089	4.1	18
19	Modeling Temporal Flow Assignment in Metro Networks Using Smart Card Data 2015 ,		8
18	Understanding the Structure of Urban Bus Networks: TheC-Space Representation Approach 2015 ,		2
17	A Bayesian network approach for population synthesis. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 61, 49-62	8.4	58
16	Optimal allocation of protective resources in urban rail transit networks against intentional attacks. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2015 , 84, 73-87	9	24
15	An integrated Bayesian approach for passenger flow assignment in metro networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 52, 116-131	8.4	81
14	Efficient detection of contagious outbreaks in massive metropolitan encounter networks. <i>Scientific Reports</i> , 2014 , 4, 5099	4.9	21

13	Demand-driven timetable design for metro services. <i>Transportation Research Part C: Emerging Technologies</i> , 2014 , 46, 284-299	8.4	172
12	Anticipatory traveller information system for freeway-arterial networks. <i>IET Intelligent Transport Systems</i> , 2014 , 8, 286-297	2.4	0
11	Models of bus boarding and alighting dynamics. <i>Transportation Research, Part A: Policy and Practice</i> , 2014 , 69, 447-460	3.7	40
10	Enhancing metro network resilience via localized integration with bus services. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014 , 63, 17-30	9	137
9	Understanding metropolitan patterns of daily encounters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13774-9	11.5	143
8	Limited Information-Sharing Strategy for Taxi Customer Searching Problem in Nonbooking Taxi Service. <i>Transportation Research Record</i> , 2013 , 2333, 46-54	1.7	10
7	Using smart card data to extract passenger's spatio-temporal density and train's trajectory of MRT system 2012 ,		59
6	Estimation of Traffic Incident Delay and its Impact Analysis Based on cell transmission model 2011 ,		2
5	Perpetual Pavements Design Criterions 2007 , 106		
4	Routine Pattern Discovery and Anomaly Detection in Individual Travel Behavior. <i>Networks and Spatial Economics</i> ,1	1.9	
3	Winter Road Surface Conditions Classification using Convolutional Neural Network (CNN): Visible Light and Thermal Images Fusion. <i>Canadian Journal of Civil Engineering</i> ,	1.3	2
2	Inertia effects of past behavior in commuting modal shift behavior: interactions, variations and implications for demand estimation. <i>Transportation</i> ,1	4	3
1	Real-Time Forecasting of Metro Origin-Destination Matrices with High-Order Weighted Dynamic Mode Decomposition. <i>Transportation Science</i> ,	4.4	3