

# Bi Yu Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,768  
citations

257101

24  
h-index

276539

41  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Map-matching algorithm for large-scale low-frequency floating car data. <i>International Journal of Geographical Information Science</i> , 2014, 28, 22-38.	2.2	138
2	Finding Reliable Shortest Paths in Road Networks Under Uncertainty. <i>Networks and Spatial Economics</i> , 2013, 13, 123-148.	0.7	118
3	Reliable shortest path finding in stochastic networks with spatial correlated link travel times. <i>International Journal of Geographical Information Science</i> , 2012, 26, 365-386.	2.2	99
4	Reliable Shortest Path Problems in Stochastic Time-Dependent Networks. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2014, 18, 177-189.	2.6	85
5	Vulnerability analysis for large-scale and congested road networks with demand uncertainty. <i>Transportation Research, Part A: Policy and Practice</i> , 2012, 46, 501-516.	2.0	84
6	A Stochastic Vehicle Routing Problem with Travel Time Uncertainty: Trade-Off Between Cost and Customer Service. <i>Networks and Spatial Economics</i> , 2013, 13, 471-496.	0.7	71
7	Spatiotemporal data model for network time geographic analysis in the era of big data. <i>International Journal of Geographical Information Science</i> , 2016, 30, 1041-1071.	2.2	70
8	Measuring place-based accessibility under travel time uncertainty. <i>International Journal of Geographical Information Science</i> , 2017, 31, 783-804.	2.2	69
9	Reliable Space-Time Prisms Under Travel Time Uncertainty. <i>Annals of the American Association of Geographers</i> , 2013, 103, 1502-1521.	3.0	67
10	Estimating Real-Time Traffic Carbon Dioxide Emissions Based on Intelligent Transportation System Technologies. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013, 14, 469-479.	4.7	63
11	The spatial characteristics and influencing factors of modal accessibility gaps: A case study for Guangzhou, China. <i>Journal of Transport Geography</i> , 2017, 60, 21-32.	2.3	62
12	Evaluating spatial accessibility to healthcare services under travel time uncertainty: A reliability-based floating catchment area approach. <i>Journal of Transport Geography</i> , 2020, 87, 102794.	2.3	60
13	Shortest Path Finding Problem in Stochastic Time-Dependent Road Networks With Stochastic First-In-First-Out Property. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013, 14, 1907-1917.	4.7	56
14	Finding the k reliable shortest paths under travel time uncertainty. <i>Transportation Research Part B: Methodological</i> , 2016, 94, 189-203.	2.8	53
15	On-time delivery probabilistic models for the vehicle routing problem with stochastic demands and time windows. <i>European Journal of Operational Research</i> , 2016, 249, 144-154.	3.5	53
16	An efficient solution algorithm for solving multi-class reliability-based traffic assignment problem. <i>Mathematical and Computer Modelling</i> , 2011, 54, 1428-1439.	2.0	51
17	Understanding the Impacts of Human Mobility on Accessibility Using Massive Mobile Phone Tracking Data. <i>Annals of the American Association of Geographers</i> , 2018, 108, 1115-1133.	1.5	49
18	A bi-level Voronoi diagram-based metaheuristic for a large-scale multi-depot vehicle routing problem. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 61, 84-97.	3.7	47

#	ARTICLE	IF	CITATIONS
19	Measuring temporal variation of location-based accessibility using space-time utility perspective. <i>Journal of Transport Geography</i> , 2018, 73, 13-24.	2.3	43
20	Understanding travel time uncertainty impacts on the equity of individual accessibility. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 75, 156-169.	3.2	43
21	Estimation of Travel Time Distributions in Urban Road Networks Using Low-Frequency Floating Car Data. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 253.	1.4	40
22	A reliability-based traffic assignment model for multi-modal transport network under demand uncertainty. <i>Journal of Advanced Transportation</i> , 2014, 48, 66-85.	0.9	36
23	A Hybrid Link-Node Approach for Finding Shortest Paths in Road Networks with Turn Restrictions. <i>Transactions in GIS</i> , 2015, 19, 915-929.	1.0	28
24	Efficient algorithm for finding k shortest paths based on re-optimization technique. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2020, 133, 101819.	3.7	28
25	Most reliable path-finding algorithm for maximizing on-time arrival probability. <i>Transportmetrica B</i> , 2017, 5, 248-264.	1.4	25
26	Efficient solution algorithm for finding spatially dependent reliable shortest path in road networks. <i>Journal of Advanced Transportation</i> , 2016, 50, 1413-1431.	0.9	23
27	A Voronoi neighborhood-based search heuristic for distance/capacity constrained very large vehicle routing problems. <i>International Journal of Geographical Information Science</i> , 2013, 27, 741-764.	2.2	21
28	Toward space-time buffering for spatiotemporal proximity analysis of movement data. <i>International Journal of Geographical Information Science</i> , 2018, 32, 1211-1246.	2.2	16
29	Spatial-interaction network analysis of built environmental influence on daily public transport demand. <i>Journal of Transport Geography</i> , 2021, 92, 102991.	2.3	16
30	A bi-objective reliable path-finding algorithm for battery electric vehicle routing. <i>Expert Systems With Applications</i> , 2021, 182, 115228.	4.4	15
31	Vehicle Re-identification for Lane-level Travel Time Estimations on Congested Urban Road Networks Using Video Images. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 12877-12893.	4.7	15
32	A spatial parallel heuristic approach for solving very large-scale vehicle routing problems. <i>Transactions in GIS</i> , 2017, 21, 1130-1147.	1.0	14
33	Optimization of traffic count locations for estimation of travel demands with covariance between origin-destination flows. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 108, 49-73.	3.9	13
34	Maximizing space-time accessibility in multi-modal transit networks: an activity-based approach. <i>Transportmetrica A: Transport Science</i> , 2022, 18, 192-220.	1.3	12
35	Heterogeneous Data Fusion Method to Estimate Travel Time Distributions in Congested Road Networks. <i>Sensors</i> , 2017, 17, 2822.	2.1	11
36	Effects of Data Preprocessing Methods on Addressing Location Uncertainty in Mobile Signaling Data. <i>Annals of the American Association of Geographers</i> , 2021, 111, 515-539.	1.5	9

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37	Characteristics of micro-blog inter-city social interactions in China. Shenzhen Daxue Xuebao (Ligong) Tj ETQq1 1 0.784314 rgBT /Over 0.1	0.1	8
38	A Microscopic Model of Vehicle CO <sub>2</sub> Emissions Based on Deep Learning – A Spatiotemporal Analysis of Taxicabs in Wuhan, China. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18446-18455.	4.7	8
39	An analytical approach to evaluate point cloud registration error utilizing targets. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 143, 48-56.	4.9	7
40	Optimizing Mixed Pedestrian-Vehicle Evacuation via Adaptive Network Reconfiguration. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1023-1033.	4.7	7
41	A LSTM-based approach for modelling the movement uncertainty of indoor trajectories with mobile sensing data. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102758.	1.4	7
42	Efficient Geo-Computational Algorithms for Constructing Space-Time Prisms in Road Networks. ISPRS International Journal of Geo-Information, 2016, 5, 214.	1.4	5
43	Effects of rainfall intensity on traffic crashes in Hong Kong. Proceedings of the Institution of Civil Engineers: Transport, 2014, 167, 343-350.	0.3	4
44	Special Issue on Spatiotemporal Big Data Analytics for Transportation Applications. Transportmetrica A: Transport Science, 2020, 16, 1-4.	1.3	4
45	Transit Voronoi diagrams in multi-mode public transport networks. Computers, Environment and Urban Systems, 2022, 96, 101849.	3.3	4
46	A fast algorithm for finding K shortest paths using generalized spur path reuse technique. Transactions in GIS, 2021, 25, 516-533.	1.0	2
47	Development of dynamic three-dimensional coastal information system: a case study in Hong Kong. Journal of Hydroinformatics, 2012, 14, 815-828.	1.1	1
48	Using Time-dependent Attractiveness to Evaluate Dynamic Place-based Accessibility. , 2018, , .		1
49	An fast integrated searching strategy and application in multi-source massive image database for Disaster Mitigation and Relief. , 2007, , .		0
50	A bitmap index technology adapt to original TM/ETM+ image database. , 2009, , .		0
51	Place-Based Space-Time Accessibility Measures Considering Travel Time Reliability. , 2018, , .		0
52	A high-precision 3D geological surface modeling method based on discrete smooth interpolation. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2014, 31, 395.	0.1	0
53	3D geological grid model based on discrete smooth interpolation. Shenzhen Daxue Xuebao (Ligong) Tj ETQq1 1 0.784314 rgBT /Over 0.1	0.1	0