

Zhixiang Fang

List of Publications by Year in descending order

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99
papers

2,295
citations

218381

26
h-index

243296

44
g-index

100
all docs

100
docs citations

100
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of high speed rail on railroad network accessibility in China. <i>Journal of Transport Geography</i> , 2014, 40, 112-122.	2.3	239
2	Optimizing the locations of electric taxi charging stations: A spatial-temporal demand coverage approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 65, 172-189.	3.9	218
3	Understanding aggregate human mobility patterns using passive mobile phone location data: a home-based approach. <i>Transportation</i> , 2015, 42, 625-646.	2.1	123
4	Finding Reliable Shortest Paths in Road Networks Under Uncertainty. <i>Networks and Spatial Economics</i> , 2013, 13, 123-148.	0.7	118
5	Hierarchical multi-objective evacuation routing in stadium using ant colony optimization approach. <i>Journal of Transport Geography</i> , 2011, 19, 443-451.	2.3	72
6	Reliable Space-Time Prisms Under Travel Time Uncertainty. <i>Annals of the American Association of Geographers</i> , 2013, 103, 1502-1521.	3.0	67
7	A proposed pedestrian waiting-time model for improving space-time use efficiency in stadium evacuation scenarios. <i>Building and Environment</i> , 2011, 46, 1774-1784.	3.0	64
8	Functionally critical locations in an urban transportation network: Identification and space-time analysis using taxi trajectories. <i>Computers, Environment and Urban Systems</i> , 2015, 52, 34-47.	3.3	54
9	Automatic Identification System-Based Approach for Assessing the Near-Miss Collision Risk Dynamics of Ships in Ports. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 534-543.	4.7	54
10	Spatiotemporal analysis of critical transportation links based on time geographic concepts: a case study of critical bridges in Wuhan, China. <i>Journal of Transport Geography</i> , 2012, 23, 44-59.	2.3	49
11	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
12	Understanding Spatiotemporal Patterns of Human Convergence and Divergence Using Mobile Phone Location Data. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 177.	1.4	46
13	Spatiotemporal model for assessing the stability of urban human convergence and divergence patterns. <i>International Journal of Geographical Information Science</i> , 2017, 31, 2119-2141.	2.2	43
14	Literature review on emission control-based ship voyage optimization. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 93, 102768.	3.2	42
15	Understanding the Spatial Structure of Urban Commuting Using Mobile Phone Location Data: A Case Study of Shenzhen, China. <i>Sustainability</i> , 2018, 10, 1435.	1.6	38
16	A GIS data model for landmark-based pedestrian navigation. <i>International Journal of Geographical Information Science</i> , 2012, 26, 817-838.	2.2	36
17	A space-time efficiency model for optimizing intra-intersection vehicle-pedestrian evacuation movements. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 31, 112-130.	3.9	36
18	A geo-ontology-based approach to decision-making in emergency management of meteorological disasters. <i>Natural Hazards</i> , 2017, 89, 531-554.	1.6	36

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19	Spatiotemporal Patterns and Morphological Characteristics of <i>Ulva prolifera</i> Distribution in the Yellow Sea, China in 2016–2018. <i>Remote Sensing</i> , 2019, 11, 445.	1.8	36
20	Impact of oil price fluctuations on tanker maritime network structure and traffic flow changes. <i>Applied Energy</i> , 2019, 237, 390-403.	5.1	32
21	Spatial heterogeneity in spatial interaction of human movements—Insights from large-scale mobile positioning data. <i>Journal of Transport Geography</i> , 2019, 78, 29-40.	2.3	31
22	A multi-objective approach to scheduling joint participation with variable space and time preferences and opportunities. <i>Journal of Transport Geography</i> , 2011, 19, 623-634.	2.3	29
23	Understanding the Representativeness of Mobile Phone Location Data in Characterizing Human Mobility Indicators. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 7.	1.4	29
24	The effect of temporal sampling intervals on typical human mobility indicators obtained from mobile phone location data. <i>International Journal of Geographical Information Science</i> , 2019, 33, 1471-1495.	2.2	29
25	What about people in pedestrian navigation?. <i>Geo-Spatial Information Science</i> , 2015, 18, 135-150.	2.4	28
26	Maritime network dynamics before and after international events. <i>Journal of Chinese Geography</i> , 2018, 28, 937-956.	1.5	27
27	Multiobjective evacuation route assignment model based on genetic algorithm. , 2010, , .		26
28	Modeling of Structure Landmark for Indoor Pedestrian Localization. <i>IEEE Access</i> , 2019, 7, 15654-15668.	2.6	26
29	Finite Markov chain analysis of classical differential evolution algorithm. <i>Journal of Computational and Applied Mathematics</i> , 2014, 268, 121-134.	1.1	25
30	Revealing the relationship of human convergence–divergence patterns and land use: A case study on Shenzhen City, China. <i>Cities</i> , 2019, 95, 102384.	2.7	23
31	Re-Identification Risk versus Data Utility for Aggregated Mobility Research Using Mobile Phone Location Data. <i>PLoS ONE</i> , 2015, 10, e0140589.	1.1	23
32	FL-GrCCA: A granular computing classification algorithm based on fuzzy lattices. <i>Computers and Mathematics With Applications</i> , 2011, 61, 138-147.	1.4	21
33	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
34	A Direction-Constrained Space-Time Prism-Based Approach for Quantifying Possible Multi-Ship Collision Risks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 131-141.	4.7	21
35	Multi-ant colony system for evacuation routing problem with mixed traffic flow. , 2010, , .		20
36	Estimating Potential Demand of Bicycle Trips from Mobile Phone Data—An Anchor-Point Based Approach. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 131.	1.4	20

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37	Revealing the Linkage Network Dynamic Structures of Chinese Maritime Ports through Automatic Information System Data. <i>Sustainability</i> , 2017, 9, 1913.	1.6	20
38	Inferring Social Functions Available in the Metro Station Area from Passengers's Staying Activities in Smart Card Data. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 394.	1.4	20
39	Modelling people's perceived scene complexity of real-world environments using street-view panoramas and open geodata. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 186, 315-331.	4.9	18
40	A multiobjective model for generating optimal landmark sequences in pedestrian navigation applications. <i>International Journal of Geographical Information Science</i> , 2011, 25, 785-805.	2.2	17
41	A conflict-congestion model for pedestrian-vehicle mixed evacuation based on discrete particle swarm optimization algorithm. <i>Computers and Operations Research</i> , 2014, 44, 1-12.	2.4	17
42	A Visual-Based Approach for Indoor Radio Map Construction Using Smartphones. <i>Sensors</i> , 2017, 17, 1790.	2.1	17
43	Understanding the Dynamics of the Pick-Up and Drop-Off Locations of Taxicabs in the Context of a Subsidy War among E-Hailing Apps. <i>Sustainability</i> , 2018, 10, 1256.	1.6	17
44	An assessment method for landmark recognition time in real scenes. <i>Journal of Environmental Psychology</i> , 2014, 40, 206-217.	2.3	16
45	Interest-Driven Outdoor Advertising Display Location Selection Using Mobile Phone Data. <i>IEEE Access</i> , 2019, 7, 30878-30889.	2.6	15
46	Multiobjective Optimization of Evacuation Routes in Stadium Using Superposed Potential Field Network Based ACO. <i>Computational Intelligence and Neuroscience</i> , 2013, 2013, 1-11.	1.1	14
47	Massive Automatic Identification System Sensor Trajectory Data-Based Multi-Layer Linkage Network Dynamics of Maritime Transport along 21st-Century Maritime Silk Road. <i>Sensors</i> , 2019, 19, 4197.	2.1	14
48	Ship Path Optimization That Accounts for Geographical Traffic Characteristics to Increase Maritime Port Safety. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 5765-5776.	4.7	14
49	An artificial bee colony-based multi-objective route planning algorithm for use in pedestrian navigation at night. <i>International Journal of Geographical Information Science</i> , 2017, 31, 2020-2044.	2.2	13
50	Understanding the Effect of an E-Hailing App Subsidy War on Taxicab Operation Zones. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-14.	0.9	12
51	A Novel Spatial-Temporal Voronoi Diagram-Based Heuristic Approach for Large-Scale Vehicle Routing Optimization with Time Constraints. <i>ISPRS International Journal of Geo-Information</i> , 2015, 4, 2019-2044.	1.4	11
52	Uncovering Spatial Inequality in Taxi Services in the Context of a Subsidy War among E-Hailing Apps. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 230.	1.4	11
53	Optimizing Living Material Delivery During the COVID-19 Outbreak. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 6709-6719.	4.7	11
54	The Application of Integrated GPS and Dead Reckoning Positioning in Automotive Intelligent Navigation System. <i>The Journal of Global Positioning Systems</i> , 2004, 3, 183-190.	1.6	11

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55	Geographic Prevalence and Mix of Regional Cuisines in Chinese Cities. ISPRS International Journal of Geo-Information, 2018, 7, 183.	1.4	10
56	Smartphone Zombie Context Awareness at Crossroads: A Multi-Source Information Fusion Approach. IEEE Access, 2020, 8, 101963-101977.	2.6	10
57	Identifying stops from mobile phone location data by introducing uncertain segments. Transactions in GIS, 2018, 22, 958-974.	1.0	9
58	Space-time personalized short message service (SMS) for infectious disease control – Policies for precise public health. Applied Geography, 2020, 114, 102103.	1.7	9
59	A discrete particle swarm optimization method for assignment of supermarket resources to urban residential communities under the situation of epidemic control. Applied Soft Computing Journal, 2021, 98, 106832.	4.1	9
60	Exploring time varying shortest path of urban OD Pairs based on floating car data. , 2010, , .		8
61	Exploring the Effects of Sampling Locations for Calibrating the Huff Model Using Mobile Phone Location Data. Sustainability, 2017, 9, 159.	1.6	8
62	Continuous Indoor Visual Localization Using a Spatial Model and Constraint. IEEE Access, 2020, 8, 69800-69815.	2.6	8
63	Multi-objective ant colony optimization model for emergency evacuation. , 2010, , .		7
64	Optimizing Mixed Pedestrian-Vehicle Evacuation via Adaptive Network Reconfiguration. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1023-1033.	4.7	7
65	Pedestrian Crossing Patterns Preference at a Non-signalized Crosswalk. Procedia Manufacturing, 2015, 3, 3353-3359.	1.9	6
66	Relative space-based GIS data model to analyze the group dynamics of moving objects. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 153, 74-95.	4.9	6
67	Dynamic optimization models for displaying outdoor advertisement at the right time and place. International Journal of Geographical Information Science, 2021, 35, 1179-1204.	2.2	6
68	Integrating GPS, GYRO, vehicle speed sensor, and digital map to provide accurate and real-time position in an intelligent navigation system. , 2005, 6045, 422.		5
69	A Geocoding Framework for Indoor Navigation based on the QR Code. , 2018, , .		5
70	Extracting Flooded Roads by Fusing GPS Trajectories and Road Network. ISPRS International Journal of Geo-Information, 2019, 8, 407.	1.4	5
71	An Accurate Visual-Inertial Integrated Geo-Tagging Method for Crowdsourcing-Based Indoor Localization. Remote Sensing, 2019, 11, 1912.	1.8	5
72	Detecting visually salient scene areas and deriving their relative spatial relations from continuous street-view panoramas. International Journal of Digital Earth, 2020, 13, 1504-1531.	1.6	5

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73	Revealing temporal stay patterns in human mobility using large-scale mobile phone location data. Transactions in GIS, 2021, 25, 1927-1948.	1.0	5
74	A Structure Landmark-Based Radio Signal Mapping Approach for Sustainable Indoor Localization. Sustainability, 2021, 13, 1183.	1.6	5
75	A kernel support vector machine-based feature selection approach for recognizing Flying Apsaras™ streamers in the Dunhuang Grotto Murals, China. Pattern Recognition Letters, 2014, 49, 107-113.	2.6	4
76	An Invisible Salient Landmark Approach to Locating Pedestrians for Predesigned Business Card Route of Pedestrian Navigation. Sensors, 2018, 18, 3164.	2.1	4
77	Variability in individual home-work activity patterns. Journal of Transport Geography, 2021, 90, 102901.	2.3	4
78	Ant Colony Based Evacuation Route Optimization Model for Mixed Pedestrian-Vehicle Flows. , 2014, , 1213-1224.		4
79	Multi-Objective Optimization for Massive Pedestrian Evacuation Using Ant Colony Algorithm. Lecture Notes in Computer Science, 2010, , 636-642.	1.0	3
80	Positive point charge potential field based ACO algorithm for multi-objective evacuation routing optimization problem. , 2012, , .		3
81	A sensitive indicator of regional space-time accessibility. Annals of GIS, 2010, 16, 155-164.	1.4	2
82	Impacts of high-speed rails on the accessibility inequality of railway network in China. , 2014, , .		2
83	Parametric Modeling of Visual Search Efficiency in Real Scenes. PLoS ONE, 2015, 10, e0128545.	1.1	2
84	A cube-based saliency detection method using integrated visual and spatial features. Sensor Review, 2016, 36, 148-157.	1.0	2
85	A data model for organizing relative semantics as images to support pedestrian navigation computations. Transactions in GIS, 2020, 24, 1655-1680.	1.0	2
86	Revealing the impact of storm surge on taxi operations: Evidence from taxi and typhoon trajectory data. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 1463-1477.	1.0	2
87	Bidirectional Spatio-Temporal Association Between the Observed Results of <i>Ulva</i> Prolifera Green Tides in the Yellow Sea and the Social Response in Sina Weibo. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5988-6008.	2.3	2
88	What Do We Actually Need During Self-localization in an Augmented Environment?. Lecture Notes in Computer Science, 2020, , 24-32.	1.0	2
89	An Improved Saliency Detection Approach for Flying Apsaras in the Dunhuang Grotto Murals, China. Advances in Multimedia, 2015, 2015, 1-11.	0.2	1
90	An Extended Community Detection Algorithm to Compare Human Mobility Flow Based on Urban Polycentric Cluster Boundaries: A Case Study of Shenzhen City. Advances in Geographic Information Science, 2017, , 111-124.	0.3	1

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91	A mobile agent-based moving objects indexing algorithm in location-based service. , 2006, , .		0
92	A multi-activities-scheduling-algorithm-based extended space-time prism. Proceedings of SPIE, 2008, , .	0.8	0
93	An Integrated Space-Time Pattern Classification Approach for Individuals' Travel Trajectories. , 2009, , .		0
94	Topologically Ordered Feature Extraction Based on Sparse Group Restricted Boltzmann Machines. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	0
95	Inertia Mutation Energy Model to Extract Roads by Crowdsourcing Trajectories. IEEE Access, 2019, 7, 186393-186408.	2.6	0
96	A mobile agent approach to access and represent remote spatial information in LBS. , 2005, , .		0
97	Spatiotemporal Critical Opportunity and Link Identification for Joint Participation Scheduling. , 2015, , 109-126.		0
98	Targeted Content Distribution in Outdoor Advertising Network by Learning Online User Behaviors. Lecture Notes in Computer Science, 2020, , 125-134.	1.0	0
99	Landmark selection preferences of young students under orientation task within street environment. Journal of Location Based Services, 0, , 1-43.	1.4	0