

Zhixiang Fang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Ship Path Optimization That Accounts for Geographical Traffic Characteristics to Increase Maritime Port Safety. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5765-5776.	4.7	14
2	Optimizing Living Material Delivery During the COVID-19 Outbreak. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6709-6719.	4.7	11
3	Modelling people's perceived scene complexity of real-world environments using street-view panoramas and open geodata. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 186, 315-331.	4.9	18
4	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
5	Variability in individual home-work activity patterns. Journal of Transport Geography, 2021, 90, 102901.	2.3	4
6	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
7	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
8	A Direction-Constrained Space-Time Prism-Based Approach for Quantifying Possible Multi-Ship Collision Risks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 131-141.	4.7	21
9	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
10	Literature review on emission control-based ship voyage optimization. Transportation Research, Part D: Transport and Environment, 2021, 93, 102768.	3.2	42
11	Revealing temporal stay patterns in human mobility using large-scale mobile phone location data. Transactions in GIS, 2021, 25, 1927-1948.	1.0	5
12	A Structure Landmark-Based Radio Signal Mapping Approach for Sustainable Indoor Localization. Sustainability, 2021, 13, 1183.	1.6	5
13	Optimizing Mixed Pedestrian-Vehicle Evacuation via Adaptive Network Reconfiguration. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1023-1033.	4.7	7
14	Space-time personalized short message service (SMS) for infectious disease control – Policies for precise public health. Applied Geography, 2020, 114, 102103.	1.7	9
15	A data model for organizing relative semantics as images to support pedestrian navigation computations. Transactions in GIS, 2020, 24, 1655-1680.	1.0	2
16	Continuous Indoor Visual Localization Using a Spatial Model and Constraint. IEEE Access, 2020, 8, 69800-69815.	2.6	8
17	Smartphone Zombie Context Awareness at Crossroads: A Multi-Source Information Fusion Approach. IEEE Access, 2020, 8, 101963-101977.	2.6	10
18	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

#	ARTICLE	IF	CITATIONS
19	What Do We Actually Need During Self-localization in an Augmented Environment?. Lecture Notes in Computer Science, 2020, , 24-32.	1.0	2
20	Targeted Content Distribution in Outdoor Advertising Network by Learning Online User Behaviors. Lecture Notes in Computer Science, 2020, , 125-134.	1.0	0
21	Extracting Flooded Roads by Fusing GPS Trajectories and Road Network. ISPRS International Journal of Geo-Information, 2019, 8, 407.	1.4	5
22	Massive Automatic Identification System Sensor Trajectory Data-Based Multi-Layer Linkage Network Dynamics of Maritime Transport along 21st-Century Maritime Silk Road. Sensors, 2019, 19, 4197.	2.1	14
23	An Accurate Visual-Inertial Integrated Geo-Tagging Method for Crowdsourcing-Based Indoor Localization. Remote Sensing, 2019, 11, 1912.	1.8	5
24	Spatial heterogeneity in spatial interaction of human movements—Insights from large-scale mobile positioning data. Journal of Transport Geography, 2019, 78, 29-40.	2.3	31
25	Revealing the relationship of human convergence—divergence patterns and land use: A case study on Shenzhen City, China. Cities, 2019, 95, 102384.	2.7	23
26	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
27	The effect of temporal sampling intervals on typical human mobility indicators obtained from mobile phone location data. International Journal of Geographical Information Science, 2019, 33, 1471-1495.	2.2	29
28	Interest-Driven Outdoor Advertising Display Location Selection Using Mobile Phone Data. IEEE Access, 2019, 7, 30878-30889.	2.6	15
29	Modeling of Structure Landmark for Indoor Pedestrian Localization. IEEE Access, 2019, 7, 15654-15668.	2.6	26
30	Spatiotemporal Patterns and Morphological Characteristics of Ulva prolifera Distribution in the Yellow Sea, China in 2016—2018. Remote Sensing, 2019, 11, 445.	1.8	36
31	Inertia Mutation Energy Model to Extract Roads by Crowdsourcing Trajectories. IEEE Access, 2019, 7, 186393-186408.	2.6	0
32	Impact of oil price fluctuations on tanker maritime network structure and traffic flow changes. Applied Energy, 2019, 237, 390-403.	5.1	32
33	Automatic Identification System-Based Approach for Assessing the Near-Miss Collision Risk Dynamics of Ships in Ports. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 534-543.	4.7	54
34	Identifying stops from mobile phone location data by introducing uncertain segments. Transactions in GIS, 2018, 22, 958-974.	1.0	9
35	A Geocoding Framework for Indoor Navigation based on the QR Code. , 2018, , .		5
36	An Invisible Salient Landmark Approach to Locating Pedestrians for Predesigned Business Card Route of Pedestrian Navigation. Sensors, 2018, 18, 3164.	2.1	4

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37	Maritime network dynamics before and after international events. <i>Journal of Chinese Geography</i> , 2018, 28, 937-956.	1.5	27
38	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
39	Geographic Prevalence and Mix of Regional Cuisines in Chinese Cities. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 183.	1.4	10
40	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
41	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
42	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
43	An Extended Community Detection Algorithm to Compare Human Mobility Flow Based on Urban Polycentric Cluster Boundaries: A Case Study of Shenzhen City. <i>Advances in Geographic Information Science</i> , 2017, , 111-124.	0.3	1
44	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
45	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
46	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
47	A Visual-Based Approach for Indoor Radio Map Construction Using Smartphones. <i>Sensors</i> , 2017, 17, 1790.	2.1	17
48	Revealing the Linkage Network Dynamic Structures of Chinese Maritime Ports through Automatic Information System Data. <i>Sustainability</i> , 2017, 9, 1913.	1.6	20
49	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
50	Inferring Social Functions Available in the Metro Station Area from Passengers' Staying Activities in Smart Card Data. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 394.	1.4	20
51	Exploring the Effects of Sampling Locations for Calibrating the Huff Model Using Mobile Phone Location Data. <i>Sustainability</i> , 2017, 9, 159.	1.6	8
52	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
53	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
54	A cube-based saliency detection method using integrated visual and spatial features. <i>Sensor Review</i> , 2016, 36, 148-157.	1.0	2

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55	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
56	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
57	Parametric Modeling of Visual Search Efficiency in Real Scenes. <i>PLoS ONE</i> , 2015, 10, e0128545.	1.1	2
58	Topologically Ordered Feature Extraction Based on Sparse Group Restricted Boltzmann Machines. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-12.	0.6	0
59	An Improved Saliency Detection Approach for Flying Apsaras in the Dunhuang Grotto Murals, China. <i>Advances in Multimedia</i> , 2015, 2015, 1-11.	0.2	1
60	Pedestrian Crossing Patterns Preference at a Non-signalized Crosswalk. <i>Procedia Manufacturing</i> , 2015, 3, 3353-3359.	1.9	6
61	What about people in pedestrian navigation?. <i>Geo-Spatial Information Science</i> , 2015, 18, 135-150.	2.4	28
62	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
63	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
64	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
65	Spatiotemporal Critical Opportunity and Link Identification for Joint Participation Scheduling. , 2015, , 109-126.		0
66	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
67	Impacts of high speed rail on railroad network accessibility in China. <i>Journal of Transport Geography</i> , 2014, 40, 112-122.	2.3	239
68	Finite Markov chain analysis of classical differential evolution algorithm. <i>Journal of Computational and Applied Mathematics</i> , 2014, 268, 121-134.	1.1	25
69	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
70	An assessment method for landmark recognition time in real scenes. <i>Journal of Environmental Psychology</i> , 2014, 40, 206-217.	2.3	16
71	A kernel support vector machine-based feature selection approach for recognizing Flying Apsaras™ streamers in the Dunhuang Grotto Murals, China. <i>Pattern Recognition Letters</i> , 2014, 49, 107-113.	2.6	4
72	Impacts of high-speed rails on the accessibility inequality of railway network in China. , 2014, , .		2

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73	Ant Colony Based Evacuation Route Optimization Model for Mixed Pedestrian-Vehicle Flows. , 2014, , 1213-1224.		4
74	Finding Reliable Shortest Paths in Road Networks Under Uncertainty. Networks and Spatial Economics, 2013, 13, 123-148.	0.7	118
75	A space-time efficiency model for optimizing intra-intersection vehicle-pedestrian evacuation movements. Transportation Research Part C: Emerging Technologies, 2013, 31, 112-130.	3.9	36
76	Multiobjective Optimization of Evacuation Routes in Stadium Using Superposed Potential Field Network Based ACO. Computational Intelligence and Neuroscience, 2013, 2013, 1-11.	1.1	14
77	A Voronoi neighborhood-based search heuristic for distance/capacity constrained very large vehicle routing problems. International Journal of Geographical Information Science, 2013, 27, 741-764.	2.2	21
78	Reliable Space-time Prisms Under Travel Time Uncertainty. Annals of the American Association of Geographers, 2013, 103, 1502-1521.	3.0	67
79	A GIS data model for landmark-based pedestrian navigation. International Journal of Geographical Information Science, 2012, 26, 817-838.	2.2	36
80	Spatiotemporal analysis of critical transportation links based on time geographic concepts: a case study of critical bridges in Wuhan, China. Journal of Transport Geography, 2012, 23, 44-59.	2.3	49
81	Positive point charge potential field based ACO algorithm for multi-objective evacuation routing optimization problem. , 2012, , .		3
82	A multi-objective approach to scheduling joint participation with variable space and time preferences and opportunities. Journal of Transport Geography, 2011, 19, 623-634.	2.3	29
83	Hierarchical multi-objective evacuation routing in stadium using ant colony optimization approach. Journal of Transport Geography, 2011, 19, 443-451.	2.3	72
84	A proposed pedestrian waiting-time model for improving space-time use efficiency in stadium evacuation scenarios. Building and Environment, 2011, 46, 1774-1784.	3.0	64
85	FL-GrCCA: A granular computing classification algorithm based on fuzzy lattices. Computers and Mathematics With Applications, 2011, 61, 138-147.	1.4	21
86	A multiobjective model for generating optimal landmark sequences in pedestrian navigation applications. International Journal of Geographical Information Science, 2011, 25, 785-805.	2.2	17
87	Multi-Objective Optimization for Massive Pedestrian Evacuation Using Ant Colony Algorithm. Lecture Notes in Computer Science, 2010, , 636-642.	1.0	3
88	Exploring time varying shortest path of urban OD Pairs based on floating car data. , 2010, , .		8
89	A sensitive indicator of regional space-time accessibility. Annals of GIS, 2010, 16, 155-164.	1.4	2
90	Multi-objective ant colony optimization model for emergency evacuation. , 2010, , .		7

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91	Multi-ant colony system for evacuation routing problem with mixed traffic flow. , 2010, , .		20
92	Multiobjective evacuation route assignment model based on genetic algorithm. , 2010, , .		26
93	An Integrated Space-Time Pattern Classification Approach for Individuals' Travel Trajectories. , 2009, , .		0
94	A multi-activities-scheduling-algorithm-based extended space-time prism. Proceedings of SPIE, 2008, , .	0.8	0
95	A mobile agent-based moving objects indexing algorithm in location-based service. , 2006, , .		0
96	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
97	A mobile agent approach to access and represent remote spatial information in LBS. , 2005, , .		0
98	The Application of Integrated GPS and Dead Reckoning Positioning in Automotive Intelligent Navigation System. The Journal of Global Positioning Systems, 2004, 3, 183-190.	1.6	11
99	Landmark selection preferences of young students under orientation task within street environment. Journal of Location Based Services, 0, , 1-43.	1.4	0