

Wei Tu

List of Publications by Year in descending order

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72
papers

2,689
citations

236925

25
h-index

189892

50
g-index

72
all docs

72
docs citations

72
times ranked

2219
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing Living Material Delivery During the COVID-19 Outbreak. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6709-6719.	8.0	11
2	A Heterogeneous Access Metamodel for Efficient IoT Remote Sensing Observation Management: Taking Precision Agriculture as an Example. IEEE Internet of Things Journal, 2022, 9, 8616-8632.	8.7	5
3	Exploring metro vibrancy and its relationship with built environment: a cross-city comparison using multi-source urban data. Geo-Spatial Information Science, 2022, 25, 182-196.	5.3	12
4	RDC-SLAM: A Real-Time Distributed Cooperative SLAM System Based on 3D LiDAR. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14721-14730.	8.0	19
5	A hierarchical approach for fine-grained urban villages recognition fusing remote and social sensing data. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102661.	2.8	10
6	Automatic Tunnel Crack Inspection Using an Efficient Mobile Imaging Module and a Lightweight CNN. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15190-15203.	8.0	23
7	Coupling graph deep learning and spatial-temporal influence of built environment for short-term bus travel demand prediction. Computers, Environment and Urban Systems, 2022, 94, 101776.	7.1	19
8	Sensing the Nighttime Economy—Housing Imbalance from a Mobile Phone Data Perspective: A Case Study in Shanghai. Remote Sensing, 2022, 14, 2738.	4.0	2
9	Real-Time Route Recommendations for E-Taxis Leveraging GPS Trajectories. IEEE Transactions on Industrial Informatics, 2021, 17, 3133-3142.	11.3	13
10	Scale Effect on Fusing Remote Sensing and Human Sensing to Portray Urban Functions. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 38-42.	3.1	16
11	A Bayesian spatio-temporal model to analyzing the stability of patterns of population distribution in an urban space using mobile phone data. International Journal of Geographical Information Science, 2021, 35, 116-134.	4.8	11
12	Understanding Ridesourcing Mobility and the Future of Electrification: A Comparative Study in Beijing. Journal of Urban Technology, 2021, 28, 217-236.	4.7	2
13	User-Generated Content and Its Applications in Urban Studies. Urban Book Series, 2021, , 523-539.	0.6	0
14	A heterogeneous key performance indicator metadata model for air quality monitoring in sustainable cities. Environmental Modelling and Software, 2021, 136, 104955.	4.5	2
15	Resolving urban mobility networks from individual travel graphs using massive-scale mobile phone tracking data. Cities, 2021, 110, 103077.	5.6	30
16	Identifying the Potential for Partial Integration of Private and Public Transportation. Sustainability, 2021, 13, 3424.	3.2	3
17	Prediction of human activity intensity using the interactions in physical and social spaces through graph convolutional networks. International Journal of Geographical Information Science, 2021, 35, 2489-2516.	4.8	25
18	A Pedestrian Network Construction System Based on Crowdsourced Walking Trajectories. IEEE Internet of Things Journal, 2021, 8, 7203-7213.	8.7	12

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19	Segregation or integration? Exploring activity disparities between migrants and settled urban residents using human mobility data. <i>Transactions in GIS</i> , 2021, 25, 2791-2820.	2.3	13
20	Integrated environmental and human observations for smart cities. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2021, 48, 1375-1379.	2.0	2
21	A global North-South division line for portraying urban development. <i>IScience</i> , 2021, 24, 102729.	4.1	17
22	Digital mapping of zinc in urban topsoil using multisource geospatial data and random forest. <i>Science of the Total Environment</i> , 2021, 792, 148455.	8.0	28
23	Collaboratively inspect large-area sewer pipe networks using pipe robotic capsules. , 2021, , .		1
24	Evaluating and characterizing urban vibrancy using spatial big data: Shanghai as a case study. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2020, 47, 1543-1559.	2.0	60
25	Optimizing Mixed Pedestrian-Vehicle Evacuation via Adaptive Network Reconfiguration. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 1023-1033.	8.0	7
26	OCD: Online Crowdsourced Delivery for On-Demand Food. <i>IEEE Internet of Things Journal</i> , 2020, 7, 6842-6854.	8.7	32
27	Portraying the spatial dynamics of urban vibrancy using multisource urban big data. <i>Computers, Environment and Urban Systems</i> , 2020, 80, 101428.	7.1	113
28	DAPR-tree: a distributed spatial data indexing scheme with data access patterns to support Digital Earth initiatives. <i>International Journal of Digital Earth</i> , 2020, 13, 1656-1671.	3.9	10
29	Deep learning-based remote and social sensing data fusion for urban region function recognition. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 163, 82-97.	11.1	105
30	A Novel Access Point Placement Method for WiFi Fingerprinting Considering Existing APs. <i>IEEE Wireless Communications Letters</i> , 2020, 9, 1799-1802.	5.0	12
31	An Efficient Access Model of Massive Spatiotemporal Vehicle Trajectory Data in Smart City. <i>IEEE Access</i> , 2020, 8, 52452-52465.	4.2	11
32	Is eye-level greening associated with the use of dockless shared bicycles?. <i>Urban Forestry and Urban Greening</i> , 2020, 51, 126690.	5.3	21
33	Employing waterborne autonomous vehicles for museum visits: a case study in Amsterdam. <i>European Transport Research Review</i> , 2020, 12, .	4.8	8
34	Profiling rapid urban transformation through urban mobility data in Shenzhen. , 2020, , 86-100.		0
35	Characterizing preferred motif choices and distance impacts. <i>PLoS ONE</i> , 2019, 14, e0215242.	2.5	16
36	Functional urban land use recognition integrating multi-source geospatial data and cross-correlations. <i>Computers, Environment and Urban Systems</i> , 2019, 78, 101374.	7.1	77

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37	Exploring the spatial differentiation of urbanization on two sides of the Hu Huanyong Line -- based on nighttime light data and cellular automata. <i>Applied Geography</i> , 2019, 112, 102081.	3.7	61
38	Acceptability, energy consumption, and costs of electric vehicle for ride-hailing drivers in Beijing. <i>Applied Energy</i> , 2019, 250, 147-160.	10.1	59
39	Tracking and Simulating Pedestrian Movements at Intersections Using Unmanned Aerial Vehicles. <i>Remote Sensing</i> , 2019, 11, 925.	4.0	16
40	Unravel the landscape and pulses of cycling activities from a dockless bike-sharing system. <i>Computers, Environment and Urban Systems</i> , 2019, 75, 184-203.	7.1	132
41	A Novel Effective Indicator of Weighted Inter-City Human Mobility Networks to Estimate Economic Development. <i>Sustainability</i> , 2019, 11, 6348.	3.2	4
42	STIETR. , 2019, , .		2
43	A simple and direct method to analyse the influences of sampling fractions on modelling intra-city human mobility. <i>International Journal of Geographical Information Science</i> , 2019, 33, 618-644.	4.8	13
44	Spatial variations in urban public ridership derived from GPS trajectories and smart card data. <i>Journal of Transport Geography</i> , 2018, 69, 45-57.	5.0	146
45	Emerging social media data on measuring urban park use. <i>Urban Forestry and Urban Greening</i> , 2018, 31, 130-141.	5.3	93
46	Profiling the Spatial Structure of London: From Individual Tweets to Aggregated Functional Zones. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 386.	2.9	10
47	Integrating Aerial and Street View Images for Urban Land Use Classification. <i>Remote Sensing</i> , 2018, 10, 1553.	4.0	97
48	A Graph Optimization-Based Indoor Map Construction Method via Crowdsourcing. <i>IEEE Access</i> , 2018, 6, 33692-33701.	4.2	23
49	Resolving Surface Displacements in Shenzhen of China from Time Series InSAR. <i>Remote Sensing</i> , 2018, 10, 1162.	4.0	26
50	Reliable Rescue Routing Optimization for Urban Emergency Logistics under Travel Time Uncertainty. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 77.	2.9	17
51	Portraying Urban Functional Zones by Coupling Remote Sensing Imagery and Human Sensing Data. <i>Remote Sensing</i> , 2018, 10, 141.	4.0	110
52	Do different datasets tell the same story about urban mobility " A comparative study of public transit and taxi usage. <i>Journal of Transport Geography</i> , 2018, 70, 78-90.	5.0	76
53	A spatial parallel heuristic approach for solving very large-scale vehicle routing problems. <i>Transactions in GIS</i> , 2017, 21, 1130-1147.	2.3	14
54	Impacts of weather on public transport ridership: Results from mining data from different sources. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 75, 17-29.	7.6	135

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55	Coupling mobile phone and social media data: a new approach to understanding urban functions and diurnal patterns. <i>International Journal of Geographical Information Science</i> , 2017, 31, 2331-2358.	4.8	200
56	A Robust Crowdsourcing-Based Indoor Localization System. <i>Sensors</i> , 2017, 17, 864.	3.8	51
57	Analyzing Risk Factors for Fatality in Urban Traffic Crashes: A Case Study of Wuhan, China. <i>Sustainability</i> , 2017, 9, 897.	3.2	15
58	Multi-Objective Emergency Material Vehicle Dispatching and Routing under Dynamic Constraints in an Earthquake Disaster Environment. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 142.	2.9	12
59	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.	7.6	218
60	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.	2.9	11
61	Inferring individual physical locations with social friendships. , 2015, , .		2
62	ALIMC: Activity Landmark-Based Indoor Mapping via Crowdsourcing. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015, 16, 2774-2785.	8.0	99
63	Activity Sequence-Based Indoor Pedestrian Localization Using Smartphones. <i>IEEE Transactions on Human-Machine Systems</i> , 2015, 45, 562-574.	3.5	122
64	A Spatio-Temporal Decision Support Framework for Large Scale Logistics Distribution in the Metropolitan Area. <i>Advances in Geographic Information Science</i> , 2015, , 193-206.	0.6	2
65	Spatiotemporal Critical Opportunity and Link Identification for Joint Participation Scheduling. , 2015, , 109-126.		0
66	Growth orientation of Cu-Sn IMC in Cu/Sn-3.5Ag/Cu x Zn microbumps and Zn-doped solder joints. <i>Materials Letters</i> , 2014, 134, 184-186.	2.6	19
67	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.	7.4	47
68	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.	4.8	21
69	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.	5.0	49
70	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.	5.0	29
71	Exploring time varying shortest path of urban OD Pairs based on floating car data. , 2010, , .		8
72	COMPARISON OF URBAN HUMAN MOVEMENTS INFERRING FROM MULTI-SOURCE SPATIAL-TEMPORAL DATA. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLI-B2, 471-476.	0.2	2