

Zhenlong Li

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

3,324
citations

159525

30
h-index

168321

53
g-index

103
all docs

103
docs citations

103
times ranked

2795
citing authors

#	ARTICLE	IF	CITATIONS
1	Does Distance Still Matter? Moderating Effects of Distance Measures on the Relationship Between Pandemic Severity and Bilateral Tourism Demand. <i>Journal of Travel Research</i> , 2023, 62, 610-625.	5.8	6
2	Three dimensions of COVID-19 risk perceptions and their socioeconomic correlates in the United States: A social media analysis. <i>Risk Analysis</i> , 2023, 43, 1174-1186.	1.5	9
3	Exploring the vertical dimension of street view image based on deep learning: a case study on lowest floor elevation estimation. <i>International Journal of Geographical Information Science</i> , 2022, 36, 1317-1342.	2.2	19
4	Population Mobility and Aging Accelerate the Transmission of Coronavirus Disease 2019 in the Deep South: A County-Level Longitudinal Analysis. <i>Clinical Infectious Diseases</i> , 2022, 74, e1-e3.	2.9	7
5	The times, they are a-changin'™: tracking shifts in mental health signals from early phase to later phase of the COVID-19 pandemic in Australia. <i>BMJ Global Health</i> , 2022, 7, e007081.	2.0	10
6	Deep Learning of High-Resolution Aerial Imagery for Coastal Marsh Change Detection: A Comparative Study. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 100.	1.4	10
7	The promise of excess mobility analysis: measuring episodic-mobility with geotagged social media data. <i>Cartography and Geographic Information Science</i> , 2022, 49, 464-478.	1.4	3
8	Studying patterns and predictors of HIV viral suppression using A Big Data approach: a research protocol. <i>BMC Infectious Diseases</i> , 2022, 22, 122.	1.3	6
9	Exploring the spatial disparity of home-dwelling time patterns in the USA during the COVID-19 pandemic via Bayesian inference. <i>Transactions in GIS</i> , 2022, 26, 1939-1961.	1.0	11
10	Human mobility and COVID-19 transmission: a systematic review and future directions. <i>Annals of GIS</i> , 2022, 28, 501-514.	1.4	35
11	A Comparison between Sentinel-2 and Landsat 8 OLI Satellite Images for Soil Salinity Distribution Mapping Using a Deep Learning Convolutional Neural Network. <i>Canadian Journal of Remote Sensing</i> , 2022, 48, 452-468.	1.1	11
12	Social Capital, Urbanization Level, and COVID-19 Vaccination Uptake in the United States: A National Level Analysis. <i>Vaccines</i> , 2022, 10, 625.	2.1	12
13	Learning-Based Methods for Detection and Monitoring of Shallow Flood-Affected Areas: Impact of Shallow-Flood Spreading on Vegetation Density. <i>Canadian Journal of Remote Sensing</i> , 2022, 48, 481-503.	1.1	10
14	Urban-regional disparities in mental health signals in Australia during the COVID-19 pandemic: a study via Twitter data and machine learning models. <i>Cambridge Journal of Regions, Economy and Society</i> , 2022, 15, 663-682.	1.7	4
15	Correlates of Zero-Dose Vaccination Status among Children Aged 12-59 Months in Sub-Saharan Africa: A Multilevel Analysis of Individual and Contextual Factors. <i>Vaccines</i> , 2022, 10, 1052.	2.1	6
16	A 100 m population grid in the CONUS by disaggregating census data with open-source Microsoft building footprints. <i>Big Earth Data</i> , 2021, 5, 112-133.	2.0	32
17	Disparity in HIV Service Interruption in the Outbreak of COVID-19 in South Carolina. <i>AIDS and Behavior</i> , 2021, 25, 49-57.	1.4	62
18	The characteristics of multi-source mobility datasets and how they reveal the luxury nature of social distancing in the U.S. during the COVID-19 pandemic. <i>International Journal of Digital Earth</i> , 2021, 14, 424-442.	1.6	62

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19	Simulating multi-€exit evacuation using deep reinforcement learning. <i>Transactions in GIS</i> , 2021, 25, 1542-1564.	1.0	11
20	Spatial-Temporal Relationship Between Population Mobility and COVID-19 Outbreaks in South Carolina: Time Series Forecasting Analysis. <i>Journal of Medical Internet Research</i> , 2021, 23, e27045.	2.1	29
21	Building a social media-based HIV risk behavior index to inform the prediction of HIV new diagnosis: a feasibility study. <i>Aids</i> , 2021, 35, S91-S99.	1.0	6
22	Spatiotemporal Patterns of Human Mobility and Its Association with Land Use Types during COVID-19 in New York City. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 344.	1.4	19
23	Introducing Twitter Daily Estimates of Residents and Non-Residents at the County Level. <i>Social Sciences</i> , 2021, 10, 227.	0.7	5
24	A novel big data approach to measure and visualize urban accessibility. <i>Computational Urban Science</i> , 2021, 1, 1.	1.9	4
25	Human mobility data in the COVID-19 pandemic: characteristics, applications, and challenges. <i>International Journal of Digital Earth</i> , 2021, 14, 1126-1147.	1.6	110
26	Measuring global multi-scale place connectivity using geotagged social media data. <i>Scientific Reports</i> , 2021, 11, 14694.	1.6	19
27	Using Mobile Device Data to Track the Effects of the COVID-19 Pandemic on Spatiotemporal Patterns of National Park Visitation. <i>Sustainability</i> , 2021, 13, 9366.	1.6	34
28	ODT FLOW: Extracting, analyzing, and sharing multi-source multi-scale human mobility. <i>PLoS ONE</i> , 2021, 16, e0255259.	1.1	25
29	Revealing Public Opinion Towards COVID-19 Vaccines With Twitter Data in the United States: Spatiotemporal Perspective. <i>Journal of Medical Internet Research</i> , 2021, 23, e30854.	2.1	87
30	Temporal Geospatial Analysis of COVID-19 Pre-Infection Determinants of Risk in South Carolina. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9673.	1.2	3
31	Identifying disaster related social media for rapid response: a visual-textual fused CNN architecture. <i>International Journal of Digital Earth</i> , 2020, 13, 1017-1039.	1.6	23
32	SOVAS: a scalable online visual analytic system for big climate data analysis. <i>International Journal of Geographical Information Science</i> , 2020, 34, 1188-1209.	2.2	11
33	Detecting new building construction in urban areas based on images of small unmanned aerial system. <i>Papers in Applied Geography</i> , 2020, 6, 56-71.	0.8	5
34	Time-Series Clustering for Home Dwell Time during COVID-19: What Can We Learn from It?. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 675.	1.4	49
35	Choosing an appropriate training set size when using existing data to train neural networks for land cover segmentation. <i>Annals of GIS</i> , 2020, 26, 329-342.	1.4	12
36	Introduction to Big Data Computing for Geospatial Applications. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 487.	1.4	10

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37	Taking the pulse of COVID-19: a spatiotemporal perspective. <i>International Journal of Digital Earth</i> , 2020, 13, 1186-1211.	1.6	88
38	Evacuation Departure Timing during Hurricane Matthew. <i>Weather, Climate, and Society</i> , 2020, 12, 235-248.	0.5	14
39	Spatiotemporal event detection: a review. <i>International Journal of Digital Earth</i> , 2020, 13, 1339-1365.	1.6	57
40	Delineating and modeling activity space using geotagged social media data. <i>Cartography and Geographic Information Science</i> , 2020, 47, 277-288.	1.4	30
41	Using geotagged tweets to track population movements to and from Puerto Rico after Hurricane Maria. <i>Population and Environment</i> , 2020, 42, 4-27.	1.3	48
42	Local motion simulation using deep reinforcement learning. <i>Transactions in GIS</i> , 2020, 24, 756-779.	1.0	10
43	Geospatial Big Data Handling with High Performance Computing: Current Approaches and Future Directions. <i>Geotechnologies and the Environment</i> , 2020, , 53-76.	0.3	16
44	Geospatial Information Processing Technologies. , 2020, , 191-227.		7
45	Bridging Twitter and Survey Data for Evacuation Assessment of Hurricane Matthew and Hurricane Irma. <i>Natural Hazards Review</i> , 2020, 21, .	0.8	37
46	Twitter reveals human mobility dynamics during the COVID-19 pandemic. <i>PLoS ONE</i> , 2020, 15, e0241957.	1.1	165
47	Monitoring the Spatial Spread of COVID-19 and Effectiveness of Control Measures Through Human Movement Data: Proposal for a Predictive Model Using Big Data Analytics. <i>JMIR Research Protocols</i> , 2020, 9, e24432.	0.5	29
48	Prototyping a Social Media Flooding Photo Screening System Based on Deep Learning. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 104.	1.4	33
49	Introduction to social sensing and big data computing for disaster management. <i>International Journal of Digital Earth</i> , 2019, 12, 1198-1204.	1.6	21
50	Social Network, Activity Space, Sentiment, and Evacuation: What Can Social Media Tell Us?. <i>Annals of the American Association of Geographers</i> , 2019, 109, 1795-1810.	1.5	25
51	Topic modeling and sentiment analysis of global climate change tweets. <i>Social Network Analysis and Mining</i> , 2019, 9, 1.	1.9	146
52	An Efficient Framework for Remote Sensing Parallel Processing: Integrating the Artificial Bee Colony Algorithm and Multiagent Technology. <i>Remote Sensing</i> , 2019, 11, 152.	1.8	15
53	A graph-based approach to detecting tourist movement patterns using social media data. <i>Cartography and Geographic Information Science</i> , 2019, 46, 368-382.	1.4	48
54	A visualâ€“textual fused approach to automated tagging of flood-related tweets during a flood event. <i>International Journal of Digital Earth</i> , 2019, 12, 1248-1264.	1.6	30

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55	Understanding demographic and socioeconomic biases of geotagged Twitter users at the county level. <i>Cartography and Geographic Information Science</i> , 2019, 46, 228-242.	1.4	86
56	A near real-time flood-mapping approach by integrating social media and post-event satellite imagery. <i>Annals of GIS</i> , 2018, 24, 113-123.	1.4	53
57	A novel approach to leveraging social media for rapid flood mapping: a case study of the 2015 South Carolina floods. <i>Cartography and Geographic Information Science</i> , 2018, 45, 97-110.	1.4	148
58	A general-purpose framework for parallel processing of large-scale LiDAR data. <i>International Journal of Digital Earth</i> , 2018, 11, 26-47.	1.6	30
59	A geospatial hybrid cloud platform based on multi-sourced computing and model resources for geosciences. <i>International Journal of Digital Earth</i> , 2018, 11, 1184-1204.	1.6	13
60	Twitter Analytics-Based Assessment: Are the United States Coastal Regions Prepared for Climate Change?. , 2018, , .		10
61	Geospatial Assessment of Wetness Dynamics in the October 2015 SC Flood with Remote Sensing and Social Media. <i>Southeastern Geographer</i> , 2018, 58, 164-180.	0.1	6
62	Reconstructing Flood Inundation Probability by Enhancing Near Real-Time Imagery With Real-Time Gauges and Tweets. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 4691-4701.	2.7	31
63	Building Model as a Service to support geosciences. <i>Computers, Environment and Urban Systems</i> , 2017, 61, 141-152.	3.3	40
64	A spatiotemporal indexing approach for efficient processing of big array-based climate data with MapReduce. <i>International Journal of Geographical Information Science</i> , 2017, 31, 17-35.	2.2	54
65	A high performance query analytical framework for supporting data-intensive climate studies. <i>Computers, Environment and Urban Systems</i> , 2017, 62, 210-221.	3.3	19
66	Big Data and cloud computing: innovation opportunities and challenges. <i>International Journal of Digital Earth</i> , 2017, 10, 13-53.	1.6	537
67	The impact of MTUP to explore online trajectories for human mobility studies. , 2017, , .		2
68	Leveraging Twitter to gauge evacuation compliance: Spatiotemporal analysis of Hurricane Matthew. <i>PLoS ONE</i> , 2017, 12, e0181701.	1.1	111
69	Automatic Scaling Hadoop in the Cloud for Efficient Process of Big Geospatial Data. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 173.	1.4	37
70	Developing Subdomain Allocation Algorithms Based on Spatial and Communicational Constraints to Accelerate Dust Storm Simulation. <i>PLoS ONE</i> , 2016, 11, e0152250.	1.1	9
71	Mining frequent trajectory patterns from online footprints. , 2016, , .		8
72	Adopting cloud computing to optimize spatial web portals for better performance to support Digital Earth and other global geospatial initiatives. <i>International Journal of Digital Earth</i> , 2015, 8, 451-475.	1.6	18

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73	Forming a global monitoring mechanism and a spatiotemporal performance model for geospatial services. <i>International Journal of Geographical Information Science</i> , 2015, 29, 375-396.	2.2	10
74	Contemporary Computing Technologies for Processing Big Spatiotemporal Data. , 2015, , 327-351.		9
75	Enabling Big Geoscience Data Analytics with a Cloud-Based, MapReduce-Enabled and Service-Oriented Workflow Framework. <i>PLoS ONE</i> , 2015, 10, e0116781.	1.1	37
76	A Service Brokering and Recommendation Mechanism for Better Selecting Cloud Services. <i>PLoS ONE</i> , 2014, 9, e105297.	1.1	38
77	Optimizing an index with spatiotemporal patterns to support GEOSS Clearinghouse. <i>International Journal of Geographical Information Science</i> , 2014, 28, 1459-1481.	2.2	15
78	GEOSS Clearinghouse. , 2014, , 31-54.		0
79	A High Performance Web-Based System for Analyzing and Visualizing Spatiotemporal Data for Climate Studies. <i>Lecture Notes in Computer Science</i> , 2013, , 190-198.	1.0	10
80	Evaluating open-source cloud computing solutions for geosciences. <i>Computers and Geosciences</i> , 2013, 59, 41-52.	2.0	42
81	Accelerating Geocomputation with Cloud Computing. , 2013, , 41-51.		2
82	Handling intensities of data, computation, concurrent access, and spatiotemporal patterns. , 2013, , 275-294.		0
83	Geospatial Service Web: towards integrated cyberinfrastructure for GIScience. <i>Geo-Spatial Information Science</i> , 2012, 15, 73-84.	2.4	16
84	A Web-Based Geovisual Analytical System for Climate Studies. <i>Future Internet</i> , 2012, 4, 1069-1085.	2.4	19
85	An optimized framework for seamlessly integrating OGC Web Services to support geospatial sciences. <i>International Journal of Geographical Information Science</i> , 2011, 25, 595-613.	2.2	52
86	Monitoring and evaluating the quality of Web Map Service resources for optimizing map composition over the internet to support decision making. <i>Computers and Geosciences</i> , 2011, 37, 485-494.	2.0	40
87	Semantic-based web service discovery and chaining for building an Arctic spatial data infrastructure. <i>Computers and Geosciences</i> , 2011, 37, 1752-1762.	2.0	44
88	The GEOSS clearinghouse high performance search engine. , 2011, , .		12
89	Using spatial principles to optimize distributed computing for enabling the physical science discoveries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5498-5503.	3.3	107
90	Human Mobility Data in the COVID-19 Pandemic: Characteristics, Applications, and Challenges. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3

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91	Social distance integrated gravity model for evacuation destination choice. International Journal of Digital Earth, 0, , 1-15.	1.6	13