

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 | Big Data and cloud computing: innovation opportunities and challenges. <i>International Journal of Digital Earth</i> , 2017, 10, 13-53. | 1.6 | 537 |
| 2 | Twitter reveals human mobility dynamics during the COVID-19 pandemic. <i>PLoS ONE</i> , 2020, 15, e0241957. | 1.1 | 165 |
| 3 | 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 |
| 4 | Topic modeling and sentiment analysis of global climate change tweets. <i>Social Network Analysis and Mining</i> , 2019, 9, 1. | 1.9 | 146 |
| 5 | Leveraging Twitter to gauge evacuation compliance: Spatiotemporal analysis of Hurricane Matthew. <i>PLoS ONE</i> , 2017, 12, e0181701. | 1.1 | 111 |
| 6 | 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 |
| 7 | 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 |
| 8 | Taking the pulse of COVID-19: a spatiotemporal perspective. <i>International Journal of Digital Earth</i> , 2020, 13, 1186-1211. | 1.6 | 88 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Spatiotemporal event detection: a review. <i>International Journal of Digital Earth</i> , 2020, 13, 1339-1365. | 1.6 | 57 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Evaluating open-source cloud computing solutions for geosciences. <i>Computers and Geosciences</i> , 2013, 59, 41-52. | 2.0 | 42 |
| 22 | 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 |
| 23 | Building Model as a Service to support geosciences. <i>Computers, Environment and Urban Systems</i> , 2017, 61, 141-152. | 3.3 | 40 |
| 24 | A Service Brokering and Recommendation Mechanism for Better Selecting Cloud Services. <i>PLoS ONE</i> , 2014, 9, e105297. | 1.1 | 38 |
| 25 | 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 |
| 26 | Bridging Twitter and Survey Data for Evacuation Assessment of Hurricane Matthew and Hurricane Irma. <i>Natural Hazards Review</i> , 2020, 21, . | 0.8 | 37 |
| 27 | 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 |
| 28 | Human mobility and COVID-19 transmission: a systematic review and future directions. <i>Annals of GIS</i> , 2022, 28, 501-514. | 1.4 | 35 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | A visualâ€œtextual 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 |
| 35 | Delineating and modeling activity space using geotagged social media data. <i>Cartography and Geographic Information Science</i> , 2020, 47, 277-288. | 1.4 | 30 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | 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. JMIR Research Protocols, 2020, 9, e24432. | 0.5 | 29 |
| 38 | Social Network, Activity Space, Sentiment, and Evacuation: What Can Social Media Tell Us?. Annals of the American Association of Geographers, 2019, 109, 1795-1810. | 1.5 | 25 |
| 39 | ODT FLOW: Extracting, analyzing, and sharing multi-source multi-scale human mobility. PLoS ONE, 2021, 16, e0255259. | 1.1 | 25 |
| 40 | Identifying disaster related social media for rapid response: a visual-textual fused CNN architecture. International Journal of Digital Earth, 2020, 13, 1017-1039. | 1.6 | 23 |
| 41 | Introduction to social sensing and big data computing for disaster management. International Journal of Digital Earth, 2019, 12, 1198-1204. | 1.6 | 21 |
| 42 | A Web-Based Geovisual Analytical System for Climate Studies. Future Internet, 2012, 4, 1069-1085. | 2.4 | 19 |
| 43 | A high performance query analytical framework for supporting data-intensive climate studies. Computers, Environment and Urban Systems, 2017, 62, 210-221. | 3.3 | 19 |
| 44 | Spatiotemporal Patterns of Human Mobility and Its Association with Land Use Types during COVID-19 in New York City. ISPRS International Journal of Geo-Information, 2021, 10, 344. | 1.4 | 19 |
| 45 | Measuring global multi-scale place connectivity using geotagged social media data. Scientific Reports, 2021, 11, 14694. | 1.6 | 19 |
| 46 | Exploring the vertical dimension of street view image based on deep learning: a case study on lowest floor elevation estimation. International Journal of Geographical Information Science, 2022, 36, 1317-1342. | 2.2 | 19 |
| 47 | Adopting cloud computing to optimize spatial web portals for better performance to support Digital Earth and other global geospatial initiatives. International Journal of Digital Earth, 2015, 8, 451-475. | 1.6 | 18 |
| 48 | Geospatial Service Web: towards integrated cyberinfrastructure for GIScience. Geo-Spatial Information Science, 2012, 15, 73-84. | 2.4 | 16 |
| 49 | Geospatial Big Data Handling with High Performance Computing: Current Approaches and Future Directions. Geotechnologies and the Environment, 2020, , 53-76. | 0.3 | 16 |
| 50 | Optimizing an index with spatiotemporal patterns to support GEOSS Clearinghouse. International Journal of Geographical Information Science, 2014, 28, 1459-1481. | 2.2 | 15 |
| 51 | An Efficient Framework for Remote Sensing Parallel Processing: Integrating the Artificial Bee Colony Algorithm and Multiagent Technology. Remote Sensing, 2019, 11, 152. | 1.8 | 15 |
| 52 | Evacuation Departure Timing during Hurricane Matthew. Weather, Climate, and Society, 2020, 12, 235-248. | 0.5 | 14 |
| 53 | A geospatial hybrid cloud platform based on multi-sourced computing and model resources for geosciences. International Journal of Digital Earth, 2018, 11, 1184-1204. | 1.6 | 13 |
| 54 | Social distance integrated gravity model for evacuation destination choice. International Journal of Digital Earth, 0, , 1-15. | 1.6 | 13 |

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|----|--|-----|-----------|
| 55 | The GEOSS clearinghouse high performance search engine. , 2011, , . | | 12 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | Simulating multi-€exit evacuation using deep reinforcement learning. <i>Transactions in GIS</i> , 2021, 25, 1542-1564. | 1.0 | 11 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | Twitter Analytics-Based Assessment: Are the United States Coastal Regions Prepared for Climate Change? , 2018, , . | | 10 |
| 65 | Introduction to Big Data Computing for Geospatial Applications. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 487. | 1.4 | 10 |
| 66 | Local motion simulation using deep reinforcement learning. <i>Transactions in GIS</i> , 2020, 24, 756-779. | 1.0 | 10 |
| 67 | The times, they are a-changinâ€™™: 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | Contemporary Computing Technologies for Processing Big Spatiotemporal Data. , 2015, , 327-351. | | 9 |
| 71 | 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 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Mining frequent trajectory patterns from online footprints. , 2016, , . | | 8 |
| 74 | Geospatial Information Processing Technologies. , 2020, , 191-227. | | 7 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | Correlates of Zero-Dose Vaccination Status among Children Aged 12â€“59 Months in Sub-Saharan Africa: A Multilevel Analysis of Individual and Contextual Factors. <i>Vaccines</i> , 2022, 10, 1052. | 2.1 | 6 |
| 81 | 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 |
| 82 | Introducing Twitter Daily Estimates of Residents and Non-Residents at the County Level. <i>Social Sciences</i> , 2021, 10, 227. | 0.7 | 5 |
| 83 | A novel big data approach to measure and visualize urban accessibility. <i>Computational Urban Science</i> , 2021, 1, 1. | 1.9 | 4 |
| 84 | 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 |
| 85 | Human Mobility Data in the COVID-19 Pandemic: Characteristics, Applications, and Challenges. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 3 |
| 86 | 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 |
| 87 | 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 |
| 88 | The impact of MTUP to explore online trajectories for human mobility studies. , 2017, , . | | 2 |
| 89 | Accelerating Geocomputation with Cloud Computing. , 2013, , 41-51. | | 2 |
| 90 | Handling intensities of data, computation, concurrent access, and spatiotemporal patterns. , 2013, , 275-294. | | 0 |

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|----|---------------------------------------|----|-----------|
| 91 | GEOSS Clearinghouse. , 2014, , 31-54. | | 0 |