Manzhu Yu

List of Publications by Year
in descending order

44 papers	1,048 citations	686830 13 h-index	433756 31 g-index
45 all docs	45 docs citations	45 times ranked	1295 citing authors

#	Article	IF	Citations
1	Aerial Image Color Balancing Based on Rank-Deficient Free Network. IEEE Access, 2023, 11, 18838-18854.	2.6	1
2	Interpretable machine learning for analysing heterogeneous drivers of geographic events in space-time. International Journal of Geographical Information Science, 2022, 36, 692-719.	2.2	5
3	A quantitative method for the similarity assessment of typhoon tracks. Natural Hazards, 2022, 112, 587-602.	1.6	3
4	Monitoring Lightning Location Based on Deep Learning Combined with Multisource Spatial Data. Remote Sensing, 2022, 14, 2200.	1.8	3
5	Spatiotemporal impacts of COVID-19 on air pollution in California, USA. Science of the Total Environment, 2021, 750, 141592.	3.9	86
6	Cloud, Edge, and Mobile Computing for Smart Cities. Urban Book Series, 2021, , 757-795.	0.3	1
7	Deep learning-based downscaling of tropospheric nitrogen dioxide using ground-level and satellite observations. Science of the Total Environment, 2021, 773, 145145.	3.9	14
8	Geographic context-aware text mining: enhance social media message classification for situational awareness by integrating spatial and temporal features. International Journal of Digital Earth, 2021, 14, 1721-1743.	1.6	8
9	Lightning Strike Location Identification Based on 3D Weather Radar Data. Frontiers in Environmental Science, 2021, 9, .	1.5	7
10	Using Long Short-Term Memory (LSTM) and Internet of Things (IoT) for Localized Surface Temperature Forecasting in an Urban Environment. IEEE Access, 2021, 9, 137406-137418.	2.6	16
11	PM2.5 Concentration Forecasting over the Central Area of the Yangtze River Delta Based on Deep Learning Considering the Spatial Diffusion Process. Remote Sensing, 2021, 13, 4834.	1.8	3
12	Taking the pulse of COVID-19: a spatiotemporal perspective. International Journal of Digital Earth, 2020, 13, 1186-1211.	1.6	88
13	Space-Time Patterns, Change, and Propagation of COVID-19 Risk Relative to the Intervention Scenarios in Bangladesh. International Journal of Environmental Research and Public Health, 2020, 17, 5911.	1.2	51
14	PreciPatch: A Dictionary-based Precipitation Downscaling Method. Remote Sensing, 2020, 12, 1030.	1.8	8
15	Spatiotemporal event detection: a review. International Journal of Digital Earth, 2020, 13, 1339-1365.	1.6	57
16	A Graph-Based Spatiotemporal Data Framework for 4D Natural Phenomena Representation and Quantification–"An Example of Dust Events. ISPRS International Journal of Geo-Information, 2020, 9, 127.	1.4	2
17	Big Data and Cloud Computing. , 2020, , 325-355.		13
18	Improving search ranking of geospatial data based on deep learning using user behavior data. Computers and Geosciences, 2020, 142, 104520.	2.0	7

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19	An Assembled Detector Based on Geometrical Constraint for Power Component Recognition. Sensors, 2019, 19, 3517.	2.1	5
20	Daytime Rainy Cloud Detection and Convective Precipitation Delineation Based on a Deep Neural Network Method Using GOES-16 ABI Images. Remote Sensing, 2019, 11, 2555.	1.8	17
21	Non-Rigid Vehicle-Borne LiDAR-Assisted Aerotriangulation. Remote Sensing, 2019, 11, 1188.	1.8	3
22	A Twitter Data Credibility Framework—Hurricane Harvey as a Use Case. ISPRS International Journal of Geo-Information, 2019, 8, 111.	1.4	36
23	Big Earth data analytics: a survey. Big Earth Data, 2019, 3, 83-107.	2.0	53
24	A Cloud-Based Framework for Large-Scale Log Mining through Apache Spark and Elasticsearch. Applied Sciences (Switzerland), 2019, 9, 1114.	1.3	8
25	Deep learning for real-time social media text classification for situation awareness – using Hurricanes Sandy, Harvey, and Irma as case studies. International Journal of Digital Earth, 2019, 12, 1230-1247.	1.6	79
26	Planetary Defense Mitigation Gateway: A One-Stop Gateway for Pertinent PD-Related Contents. Data, 2019, 4, 47.	1.2	1
27	3D modelling strategy for weather radar data analysis. Environmental Earth Sciences, 2018, 77, 1.	1.3	4
28	A framework for natural phenomena movement tracking – Using 4D dust simulation as an example. Computers and Geosciences, 2018, 121, 53-66.	2.0	5
29	Utilizing MapReduce to Improve Probe-Car Track Data Mining. ISPRS International Journal of Geo-Information, 2018, 7, 287.	1.4	4
30	Geospatial Data Discovery, Management, and Analysis at National Aeronautics and Space Administration (NASA). , 2018, , 177-191.		0
31	Big Data in Natural Disaster Management: A Review. Geosciences (Switzerland), 2018, 8, 165.	1.0	193
32	Predicting the visualization intensity for interactive spatio-temporal visual analytics: a data-driven view-dependent approach. International Journal of Geographical Information Science, 2017, 31, 168-189.	2.2	2
33	An architecture for mitigating near earth object's impact to the earth. , 2017, , .		0
34	Utilizing Cloud Computing to address big geospatial data challenges. Computers, Environment and Urban Systems, 2017, 61, 120-128.	3.3	138
35	A 3D multi-threshold, region-growing algorithm for identifying dust storm features from model simulations. International Journal of Geographical Information Science, 2017, 31, 939-961.	2.2	8
36	Registration of Long-Strip Terrestrial Laser Scanning Point Clouds Using RANSAC and Closed Constraint Adjustment. Remote Sensing, 2016, 8, 278.	1.8	8

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37	Developing Subdomain Allocation Algorithms Based on Spatial and Communicational Constraints to Accelerate Dust Storm Simulation. PLoS ONE, 2016, 11, e0152250.	1.1	9
38	Improving the Non-Hydrostatic Numerical Dust Model by Integrating Soil Moisture and Greenness Vegetation Fraction Data with Different Spatiotemporal Resolutions. PLoS ONE, 2016, 11, e0165616.	1.1	3
39	Forming a global monitoring mechanism and a spatiotemporal performance model for geospatial services. International Journal of Geographical Information Science, 2015, 29, 375-396.	2.2	10
40	Visualizing spatiotemporal trajectories of mobile social media users using space–time cube. Cartography and Geographic Information Science, 2015, 42, 75-83.	1.4	4
41	Contemporary Computing Technologies for Processing Big Spatiotemporal Data. , 2015, , 327-351.		9
42	Enabling Big Geoscience Data Analytics with a Cloud-Based, MapReduce-Enabled and Service-Oriented Workflow Framework. PLoS ONE, 2015, 10, e0116781.	1.1	37
43	A Service Brokering and Recommendation Mechanism for Better Selecting Cloud Services. PLoS ONE, 2014, 9, e105297.	1.1	38
44	Utilizing high spatiotemporal resolution soil moisture for dust storm modeling. , 2013, , .		1