

# Manzhu Yu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/846874/publications.pdf>

Version: 2024-02-01

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	Big Data in Natural Disaster Management: A Review. <i>Geosciences (Switzerland)</i> , 2018, 8, 165.	1.0	193
2	Utilizing Cloud Computing to address big geospatial data challenges. <i>Computers, Environment and Urban Systems</i> , 2017, 61, 120-128.	3.3	138
3	Taking the pulse of COVID-19: a spatiotemporal perspective. <i>International Journal of Digital Earth</i> , 2020, 13, 1186-1211.	1.6	88
4	Spatiotemporal impacts of COVID-19 on air pollution in California, USA. <i>Science of the Total Environment</i> , 2021, 750, 141592.	3.9	86
5	Deep learning for real-time social media text classification for situation awareness “ using Hurricanes Sandy, Harvey, and Irma as case studies. <i>International Journal of Digital Earth</i> , 2019, 12, 1230-1247.	1.6	79
6	Spatiotemporal event detection: a review. <i>International Journal of Digital Earth</i> , 2020, 13, 1339-1365.	1.6	57
7	Big Earth data analytics: a survey. <i>Big Earth Data</i> , 2019, 3, 83-107.	2.0	53
8	Space-Time Patterns, Change, and Propagation of COVID-19 Risk Relative to the Intervention Scenarios in Bangladesh. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5911.	1.2	51
9	A Service Brokering and Recommendation Mechanism for Better Selecting Cloud Services. <i>PLoS ONE</i> , 2014, 9, e105297.	1.1	38
10	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
11	A Twitter Data Credibility Framework“Hurricane Harvey as a Use Case. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 111.	1.4	36
12	Daytime Rainy Cloud Detection and Convective Precipitation Delineation Based on a Deep Neural Network Method Using GOES-16 ABI Images. <i>Remote Sensing</i> , 2019, 11, 2555.	1.8	17
13	Using Long Short-Term Memory (LSTM) and Internet of Things (IoT) for Localized Surface Temperature Forecasting in an Urban Environment. <i>IEEE Access</i> , 2021, 9, 137406-137418.	2.6	16
14	Deep learning-based downscaling of tropospheric nitrogen dioxide using ground-level and satellite observations. <i>Science of the Total Environment</i> , 2021, 773, 145145.	3.9	14
15	Big Data and Cloud Computing. , 2020, , 325-355.		13
16	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
17	Contemporary Computing Technologies for Processing Big Spatiotemporal Data. , 2015, , 327-351.		9
18	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

#	ARTICLE	IF	CITATIONS
19	Registration of Long-Strip Terrestrial Laser Scanning Point Clouds Using RANSAC and Closed Constraint Adjustment. <i>Remote Sensing</i> , 2016, 8, 278.	1.8	8
20	A 3D multi-threshold, region-growing algorithm for identifying dust storm features from model simulations. <i>International Journal of Geographical Information Science</i> , 2017, 31, 939-961.	2.2	8
21	A Cloud-Based Framework for Large-Scale Log Mining through Apache Spark and Elasticsearch. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1114.	1.3	8
22	PreciPatch: A Dictionary-based Precipitation Downscaling Method. <i>Remote Sensing</i> , 2020, 12, 1030.	1.8	8
23	Geographic context-aware text mining: enhance social media message classification for situational awareness by integrating spatial and temporal features. <i>International Journal of Digital Earth</i> , 2021, 14, 1721-1743.	1.6	8
24	Lightning Strike Location Identification Based on 3D Weather Radar Data. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	7
25	Improving search ranking of geospatial data based on deep learning using user behavior data. <i>Computers and Geosciences</i> , 2020, 142, 104520.	2.0	7
26	A framework for natural phenomena movement tracking “ Using 4D dust simulation as an example. <i>Computers and Geosciences</i> , 2018, 121, 53-66.	2.0	5
27	An Assembled Detector Based on Geometrical Constraint for Power Component Recognition. <i>Sensors</i> , 2019, 19, 3517.	2.1	5
28	Interpretable machine learning for analysing heterogeneous drivers of geographic events in space-time. <i>International Journal of Geographical Information Science</i> , 2022, 36, 692-719.	2.2	5
29	Visualizing spatiotemporal trajectories of mobile social media users using space“time cube. <i>Cartography and Geographic Information Science</i> , 2015, 42, 75-83.	1.4	4
30	3D modelling strategy for weather radar data analysis. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	4
31	Utilizing MapReduce to Improve Probe-Car Track Data Mining. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 287.	1.4	4
32	Improving the Non-Hydrostatic Numerical Dust Model by Integrating Soil Moisture and Greenness Vegetation Fraction Data with Different Spatiotemporal Resolutions. <i>PLoS ONE</i> , 2016, 11, e0165616.	1.1	3
33	Non-Rigid Vehicle-Borne LiDAR-Assisted Aerotriangulation. <i>Remote Sensing</i> , 2019, 11, 1188.	1.8	3
34	PM2.5 Concentration Forecasting over the Central Area of the Yangtze River Delta Based on Deep Learning Considering the Spatial Diffusion Process. <i>Remote Sensing</i> , 2021, 13, 4834.	1.8	3
35	A quantitative method for the similarity assessment of typhoon tracks. <i>Natural Hazards</i> , 2022, 112, 587-602.	1.6	3
36	Monitoring Lightning Location Based on Deep Learning Combined with Multisource Spatial Data. <i>Remote Sensing</i> , 2022, 14, 2200.	1.8	3

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Utilizing high spatiotemporal resolution soil moisture for dust storm modeling. , 2013, , .		1
40	Planetary Defense Mitigation Gateway: A One-Stop Gateway for Pertinent PD-Related Contents. Data, 2019, 4, 47.	1.2	1
41	Aerial Image Color Balancing Based on Rank-Deficient Free Network. IEEE Access, 2023, 11, 18838-18854.	2.6	1
42	Cloud, Edge, and Mobile Computing for Smart Cities. Urban Book Series, 2021, , 757-795.	0.3	1
43	An architecture for mitigating near earth object's impact to the earth. , 2017, , .		0
44	Geospatial Data Discovery, Management, and Analysis at National Aeronautics and Space Administration (NASA). , 2018, , 177-191.		0