

Zhe Jiang

List of Publications by Year in descending order

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33
papers

591
citations

933447

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752698

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33
all docs

33
docs citations

33
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-Supervised Learning With the EM Algorithm: A Comparative Study Between Unstructured and Structured Prediction. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 2912-2920.	5.7	6
2	Earth Imagery Segmentation on Terrain Surface with Limited Training Labels: A Semi-supervised Approach based on Physics-Guided Graph Co-Training. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-22.	4.5	1
3	Weakly Supervised Spatial Deep Learning for Earth Image Segmentation Based on Imperfect Polyline Labels. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-20.	4.5	4
4	A Hidden Markov Tree Model for Flood Extent Mapping in Heavily Vegetated Areas based on High Resolution Aerial Imagery and DEM: A Case Study on Hurricane Matthew Floods. International Journal of Remote Sensing, 2021, 42, 1160-1179.	2.9	5
5	Deep Neural Network for 3D Surface Segmentation based on Contour Tree Hierarchy. , 2021, , 253-261.		2
6	Extensibility of U-Net Neural Network Model for Hydrographic Feature Extraction and Implications for Hydrologic Modeling. Remote Sensing, 2021, 13, 2368.	4.0	15
7	Flood Inundation Mapping with Limited Observations Based on Physics-Aware Topography Constraint. Frontiers in Big Data, 2021, 4, 707951.	2.9	2
8	Large-Scale River Mapping Using Contrastive Learning and Multi-Source Satellite Imagery. Remote Sensing, 2021, 13, 2893.	4.0	8
9	Weakly Supervised Spatial Deep Learning based on Imperfect Vector Labels with Registration Errors. , 2021, , .		1
10	Mining Colocation from Big Geo-Spatial Event Data on GPU. , 2021, , 241-259.		1
11	Parallel Grid-Based Colocation Mining Algorithms on GPUs for Big Spatial Event Data. IEEE Transactions on Big Data, 2020, 6, 107-118.	6.1	20
12	A Hidden Markov Contour Tree Model for Spatial Structured Prediction. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	5.7	5
13	Spatial Structured Prediction Models: Applications, Challenges, and Techniques. IEEE Access, 2020, 8, 38714-38727.	4.2	10
14	Spatial Classification with Limited Observations Based on Physics-Aware Structural Constraint. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 898-905.	4.9	4
15	Mapping Road Safety Features from Streetview Imagery. ACM/IMS Transactions on Data Science, 2020, 1, 1-20.	2.0	7
16	Interpretable Spatiotemporal Deep Learning Model for Traffic Flow Prediction Based on Potential Energy Fields. , 2020, , .		8
17	A Survey on Spatial Prediction Methods. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 1645-1664.	5.7	48
18	Spatial Ensemble Learning for Heterogeneous Geographic Data with Class Ambiguity. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-25.	4.5	13

#	ARTICLE	IF	CITATIONS
19	Geographical Hidden Markov Tree. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	5.7	6
20	Hidden Markov Contour Tree. , 2019, , .		8
21	Geographical Hidden Markov Tree for Flood Extent Mapping. , 2018, , .		17
22	Spatial Big Data Science. , 2017, , .		31
23	Spatial Ensemble Learning for Heterogeneous Geographic Data with Class Ambiguity. , 2017, , .		13
24	The Nexus of Food, Energy, and Water Resources: Visions and Challenges in Spatial Computing. Advances in Geographic Information Science, 2017, , 5-20.	0.6	19
25	Spatial Big Data. , 2017, , 3-13.		4
26	Spatial computing perspective on food energy and water nexus. Journal of Environmental Studies and Sciences, 2016, 6, 62-76.	2.0	36
27	Monitoring Land-Cover Changes: A Machine-Learning Perspective. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 8-21.	9.6	75
28	Spatiotemporal Data Mining: A Computational Perspective. ISPRS International Journal of Geo-Information, 2015, 4, 2306-2338.	2.9	145
29	Learning Spatial Decision Trees for Land Cover Mapping. , 2015, , .		1
30	Focal-Test-Based Spatial Decision Tree Learning. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1547-1559.	5.7	40
31	Learning a Spatial Ensemble of Classifiers for Raster Classification: A Summary of Results. , 2014, , .		1
32	Focal-Test-Based Spatial Decision Tree Learning: A Summary of Results. , 2013, , .		18
33	Learning spatial decision tree for geographical classification. , 2012, , .		17