

Liqiang Zhang

List of Publications by Year in descending order

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53
papers

1,483
citations

279798

23
h-index

345221

36
g-index

53
all docs

53
docs citations

53
times ranked

1365
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multiscale and Hierarchical Feature Extraction Method for Terrestrial Laser Scanning Point Cloud Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2409-2425.	6.3	138
2	A Methodology for Automated Segmentation and Reconstruction of Urban 3-D Buildings from ALS Point Clouds. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4199-4217.	4.9	106
3	A Multilevel Point-Cluster-Based Discriminative Feature for ALS Point Cloud Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3309-3321.	6.3	81
4	A Three-Layered Graph-Based Learning Approach for Remote Sensing Image Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6020-6034.	6.3	72
5	Urban building roof segmentation from airborne lidar point clouds. International Journal of Remote Sensing, 2012, 33, 6497-6515.	2.9	60
6	MLRSNet: A multi-label high spatial resolution remote sensing dataset for semantic scene understanding. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 169, 337-350.	11.1	60
7	Air pollution-induced missed abortion risk for pregnancies. Nature Sustainability, 2019, 2, 1011-1017.	23.7	50
8	Continuous Extraction of Subway Tunnel Cross Sections Based on Terrestrial Point Clouds. Remote Sensing, 2014, 6, 857-879.	4.0	49
9	3DCNN-DQN-RNN: A Deep Reinforcement Learning Framework for Semantic Parsing of Large-Scale 3D Point Clouds. , 2017, , .		49
10	Large-scale urban point cloud labeling and reconstruction. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 86-100.	11.1	49
11	Air pollution exposure associates with increased risk of neonatal jaundice. Nature Communications, 2019, 10, 3741.	12.8	48
12	A Three-Step Approach for TLS Point Cloud Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5412-5424.	6.3	44
13	A Deep Neural Network With Spatial Pooling (DNNSP) for 3-D Point Cloud Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4594-4604.	6.3	42
14	A hierarchical methodology for urban facade parsing from TLS point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 123, 75-93.	11.1	36
15	Self-Supervised Feature Learning With CRF Embedding for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2628-2642.	6.3	35
16	Discriminative-Dictionary-Learning-Based Multilevel Point-Cluster Features for ALS Point-Cloud Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7309-7322.	6.3	34
17	Self-Supervised Low-Rank Representation (SSLRR) for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-15.	6.3	31
18	Learning a Discriminative Distance Metric With Label Consistency for Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4427-4440.	6.3	28

#	ARTICLE	IF	CITATIONS
19	A Flexible Architecture for Extracting Metro Tunnel Cross Sections from Terrestrial Laser Scanning Point Clouds. <i>Remote Sensing</i> , 2019, 11, 297.	4.0	28
20	A Dense Feature Pyramid Network-Based Deep Learning Model for Road Marking Instance Segmentation Using MLS Point Clouds. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 784-800.	6.3	27
21	Automatic simplification and visualization of 3D urban building models. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 222-231.	2.8	26
22	Land-Use Mapping for High-Spatial Resolution Remote Sensing Image Via Deep Learning: A Review. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 5372-5391.	4.9	25
23	Classification of Urban Point Clouds: A Robust Supervised Approach With Automatically Generating Training Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1207-1220.	4.9	24
24	DML-GANR: Deep Metric Learning With Generative Adversarial Network Regularization for High Spatial Resolution Remote Sensing Image Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8888-8904.	6.3	24
25	PSASL: Pixel-Level and Superpixel-Level Aware Subspace Learning for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 4278-4293.	6.3	22
26	An improved line-of-sight method for visibility analysis in 3D complex landscapes. <i>Science China Information Sciences</i> , 2010, 53, 2185-2194.	4.3	20
27	Interactive visualization of multi-resolution urban building models considering spatial cognition. <i>International Journal of Geographical Information Science</i> , 2011, 25, 5-24.	4.8	19
28	Latent Relationship Guided Stacked Sparse Autoencoder for Hyperspectral Imagery Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3711-3725.	6.3	19
29	Perception-based shape retrieval for 3D building models. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 75, 76-91.	11.1	18
30	A mathematical morphology-based multi-level filter of LiDAR data for generating DTMs. <i>Science China Information Sciences</i> , 2013, 56, 1-14.	4.3	17
31	Joint Discriminative Dictionary and Classifier Learning for ALS Point Cloud Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 524-538.	6.3	16
32	Visualization of large spatial data in networking environments. <i>Computers and Geosciences</i> , 2007, 33, 1130-1139.	4.2	15
33	An efficient rendering method for large vector data on large terrain models. <i>Science China Information Sciences</i> , 2010, 53, 1122-1129.	4.3	15
34	An Optimized BaySAC Algorithm for Efficient Fitting of Primitives in Point Clouds. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1096-1100.	3.1	14
35	A Gestalt rules and graph-cut-based simplification framework for urban building models. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 35, 247-258.	2.8	14
36	A geometry and texture coupled flexible generalization of urban building models. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012, 70, 1-14.	11.1	13

#	ARTICLE	IF	CITATIONS
37	Relationship between Air Pollutant Exposure and Gynecologic Cancer Risk. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5353.	2.6	13
38	Hierarchical Aggregated Deep Features for ALS Point Cloud Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 1686-1699.	6.3	12
39	Variational retrieval of leaf area index from MODIS time series data: examples from the Heihe river basin, north-west China. <i>International Journal of Remote Sensing</i> , 2012, 33, 730-745.	2.9	11
40	Transmission and visualization of large geographical maps. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011, 66, 73-80.	11.1	10
41	Projection learning with local and global consistency constraints for scene classification. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 144, 202-216.	11.1	9
42	Effective solutions to a global 3D visual system in networking environments. <i>Science in China Series D: Earth Sciences</i> , 2005, 48, 2032-2039.	0.9	7
43	A web-mapping system for real-time visualization of the global terrain. <i>Computers and Geosciences</i> , 2005, 31, 343-352.	4.2	7
44	Web-based terrain and vector maps visualization for Wenchuan earthquake. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2010, 12, 439-447.	2.8	7
45	SLCRF: Subspace Learning With Conditional Random Field for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 4203-4217.	6.3	7
46	Ambient temperatures associated with increased risk of motor vehicle crashes in New York and Chicago. <i>Science of the Total Environment</i> , 2022, 830, 154731.	8.0	7
47	Web-based visualization of spatial objects in 3D GIS. <i>Science in China Series F: Information Sciences</i> , 2009, 52, 1588-1597.	1.1	6
48	Adaptive multi-resolution labeling in virtual landscapes. <i>International Journal of Geographical Information Science</i> , 2010, 24, 949-964.	4.8	6
49	Evaluation of county-level poverty alleviation progress by deep learning and satellite observations. <i>Big Earth Data</i> , 2021, 5, 576-592.	4.4	5
50	DS ⁴ L: Deep Semisupervised Shared Subspace Learning for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	3
51	DRFL-VAT: Deep Representative Feature Learning With Virtual Adversarial Training for Semisupervised Classification of Hyperspectral Image. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	3
52	A feature extraction and similarity metric-learning framework for urban model retrieval. <i>International Journal of Geographical Information Science</i> , 2017, 31, 1749-1769.	4.8	1
53	DSL-BC: Deep Subspace Learning With Boundary Consistency for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	1