Pengfeng Xiao

List of Publications by Year
in descending order

68 papers	1,467 citations	430874 18 h-index	330143 37 g-index
69 all docs	69 docs citations	69 times ranked	1826 citing authors

#	Article	IF	Citations
1	Accuracy assessment of seven global land cover datasets over China. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 125, 156-173.	11.1	239
2	Segmentation quality evaluation using region-based precision and recall measures for remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 102, 73-84.	11.1	112
3	Monitoring lake changes of Qinghai-Tibetan Plateau over the past 30Âyears using satellite remote sensing data. Science Bulletin, 2014, 59, 1021-1035.	1.7	102
4	A lake data set for the Tibetan Plateau from the 1960s, 2005, and 2014. Scientific Data, 2016, 3, 160039.	5.3	100
5	Detecting China's Urban Expansion Over the Past Three Decades Using Nighttime Light Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4095-4106.	4.9	83
6	Change detection of built-up land: A framework of combining pixel-based detection and object-based recognition. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 119, 402-414.	11.1	70
7	Separate segmentation of multi-temporal high-resolution remote sensing images for object-based change detection in urban area. Remote Sensing of Environment, 2017, 201, 243-255.	11.0	63
8	Hybrid region merging method for segmentation of high-resolution remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 98, 19-28.	11.1	61
9	Cosegmentation for Object-Based Building Change Detection From High-Resolution Remotely Sensed Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1587-1603.	6.3	56
10	Boundary-constrained multi-scale segmentation method for remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 78, 15-25.	11.1	53
11	An Unsupervised Evaluation Method for Remotely Sensed Imagery Segmentation. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 156-160.	3.1	43
12	On the Effectiveness of Weakly Supervised Semantic Segmentation for Building Extraction From High-Resolution Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3266-3281.	4.9	42
13	Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3694-3706.	6.3	30
14	Segmentation of multispectral high-resolution satellite imagery using log Gabor filters. International Journal of Remote Sensing, 2010, 31, 1427-1439.	2.9	24
15	Image feature detection from phase congruency based on two-dimensional Hilbert transform. Pattern Recognition Letters, 2011, 32, 2015-2024.	4.2	24
16	Spectral Similarity Measure Using Frequency Spectrum for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 130-134.	3.1	24
17	Object-specific optimization of hierarchical multiscale segmentations for high-spatial resolution remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 159, 308-321.	11.1	20
18	Index Your Position: A Novel Self-Supervised Learning Method for Remote Sensing Images Semantic Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	20

#	Article	IF	Citations
19	Unsupervised multi-class segmentation of SAR images using triplet Markov fields models based on edge penalty. Pattern Recognition Letters, 2011, 32, 1532-1540.	4.2	19
20	Comparison of Snow Indexes in Estimating Snow Cover Fraction in a Mountainous Area in Northwestern China. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 725-729.	3.1	19
21	Uncertainty analysis of cross-calibration for HJ-1 CCD camera. Science China Technological Sciences, 2013, 56, 713-723.	4.0	17
22	Urban heat island in summer of Nanjing based on TM data. , 2009, , .		16
23	Impervious surface extraction from high-resolution satellite image using pixel- and object-based hybrid analysis. International Journal of Remote Sensing, 2013, 34, 4449-4465.	2.9	15
24	Multiscale Optimized Segmentation of Urban Green Cover in High Resolution Remote Sensing Image. Remote Sensing, 2018, 10, 1813.	4.0	14
25	Integrating Gate and Attention Modules for High-Resolution Image Semantic Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4530-4546.	4.9	14
26	Fast Hierarchical Segmentation of High-Resolution Remote Sensing Image with Adaptive Edge Penalty. Photogrammetric Engineering and Remote Sensing, 2014, 80, 71-80.	0.6	13
27	A Modified PSO Algorithm for Remote Sensing Image Template Matching. Photogrammetric Engineering and Remote Sensing, 2010, 76, 379-389.	0.6	11
28	Extracting Snow Cover in Mountain Areas Based on SAR and Optical Data. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1136-1140.	3.1	11
29	Impact of Sensor Zenith Angle on MOD10A1 Data Reliability and Modification of Snow Cover Data for the Tarim River Basin. Remote Sensing, 2016, 8, 750.	4.0	11
30	Another look on region merging procedure from seed region shift for high-resolution remote sensing image segmentation. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 148, 197-207.	11.1	11
31	Support vector machine-based decision tree for snow cover extraction in mountain areas using high spatial resolution remote sensing image. Journal of Applied Remote Sensing, 2014, 8, 084698.	1.3	10
32	Effective Compositing Method to Produce Cloud-Free AVHRR Image. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 328-332.	3.1	10
33	Opto-Thermal Transient Emission Radiometry (OTTER) to image diffusion in nails in vivo. International Journal of Pharmaceutics, 2011, 406, 111-113.	5.2	9
34	A co-training, mutual learning approach towards mapping snow cover from multi-temporal high-spatial resolution satellite imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 122, 179-191.	11.1	8
35	Toward combining thematic information with hierarchical multiscale segmentations using tree Markov random field model. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 131, 134-146.	11.1	8
36	Snow Grain-Size Estimation Over Mountainous Areas From MODIS Imagery. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 97-101.	3.1	8

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37	Retrieving snow wetness based on surface and volume scattering simulation. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 169, 17-28.	11.1	8
38	Multi-scale Segmentation of High-Spatial Resolution Remote Sensing Images Using Adaptively Increased Scale Parameter. Photogrammetric Engineering and Remote Sensing, 2015, 81, 461-470.	0.6	6
39	Optimal Gabor filter-based edge detection of high spatial resolution remotely sensed images. Journal of Applied Remote Sensing, 2017, 11, 015019.	1.3	6
40	Elevationâ€dependent response of snow phenology to climate change from a remote sensing perspective: A case survey in the central Tianshan mountains from 2000 to 2019. International Journal of Climatology, 2022, 42, 1706-1722.	3.5	6
41	Multitemporal ensemble learning for snow cover extraction from high-spatial-resolution images in mountain areas. International Journal of Remote Sensing, 2020, 41, 1668-1691.	2.9	5
42	How do snow cover fraction change and respond to climate in Altai Mountains of China?. International Journal of Climatology, 2022, 42, 7213-7227.	3.5	5
43	Updating land cover map based on change detection of high-resolution remote sensing images. Journal of Applied Remote Sensing, 2021, 15, .	1.3	4
44	Which CAM is Better for Extracting Geographic Objects? A Perspective From Principles and Experiments. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5623-5635.	4.9	4
45	Feature detection from IKONOS pan imagery based on phase congruency. , 2006, 6365, 113.		3
46	Edge detection of street trees in high-resolution remote sensing images using spectrum features. Proceedings of SPIE, 2013, , .	0.8	3
47	Land-Use Changes in China During the Past 30 Years. , 2015, , 11-49.		3
48	Evaluating Snow Bidirectional Reflectance of Models Using Multiangle Remote Sensing Data and Field Measurements. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
49	Estimation of chlorophyll content in mountain steppe using in situ hyperspectral measurements. Spectroscopy Letters, 2020, , 1-12.	1.0	3
50	Direction-dominated change vector analysis for forest change detection. International Journal of Applied Earth Observation and Geoinformation, 2021, 103, 102492.	2.8	3
51	Multiscale feature detection of multispectral remotely sensed imagery in wavelet domain. , 2009, , .		2
52	Extraction of urban street trees from high resolution remote sensing image. , 2009, , .		2
53	Identification of Agricultural Row Features Using Optical Data for Scattering and Reflectance Modeling Over Periodic Surfaces. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1729-1739.	4.9	2
54	An improved approach of dry snow density estimation using C-band synthetic aperture radar data. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 191, 49-67.	11.1	2

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55	Simulation and analysis on the land-use patterns of Nanjing city based on AutoLogistic method. , 2009, , .		1
56	Climatic Effects of China Large-Scale Urbanization on East Asian Summer Monsoon under Different Phases of Pacific Decadal Oscillation. Atmosphere, 2019, 10, 90.	2.3	1
57	An Integrated Shadow-Adjusted Snow-Aging Index for Alpine Regions. Remote Sensing, 2020, 12, 1249.	4.0	1
58	Object-based island green cover mapping by integrating UAV multispectral image and LiDAR data. Journal of Applied Remote Sensing, 2021, 15, .	1.3	1
59	The influence of snow grain size on snow bidirectional reflectance. Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves, 2013, 32, 283.	0.2	1
60	Evaluation of the surface reflectance retrieval on the satellite data. Proceedings of SPIE, 2007, 6752, 332.	0.8	0
61	Applying texture marker-controlled watershed transform to the segmentation of IKONOS image. , 2007, , .		0
62	Extraction of architectural information from urban green space baced on high resolution remote sensing image. , 2009, , .		0
63	Extraction of urban green space in shadow area from IKONOS image. , 2009, , .		0
64	A new method of extracting shape features from IKONOS imagery based on Fourier Descriptor: an application to object-oriented classification. Proceedings of SPIE, 2009, , .	0.8	0
65	Numerical simulation and analysis of hazardous gas dispersion in urban sub-domain. , 2011, , .		0
66	Estimating 3D canopy's gap fraction using photographic method. , 2011, , .		0
67	A comparison of separate segmentation strategies to reveal geometric changes of buildings in urban area. , 2017, , .		0
68	Corrections to â€œUsing Land Long Term Data Records to Map Land Cover Changes in China over 1981--2010â€. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1333-1334.	4.9	0