

Chao Wang

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108
papers

1,370
citations

19
h-index

33
g-index

157
ext. papers

1,927
ext. citations

4.2
avg. IF

5.23
L-index

#	Paper	IF	Citations
108	A SAR Dataset of Ship Detection for Deep Learning under Complex Backgrounds. <i>Remote Sensing</i> , 2019 , 11, 765	5	139
107	Automatic Ship Detection Based on RetinaNet Using Multi-Resolution Gaofen-3 Imagery. <i>Remote Sensing</i> , 2019 , 11, 531	5	90
106	Multi-Temporal SAR Data Large-Scale Crop Mapping Based on U-Net Model. <i>Remote Sensing</i> , 2019 , 11, 68	5	59
105	Ship Detection for High-Resolution SAR Images Based on Feature Analysis. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 119-123	4.1	58
104	A Novel Hierarchical Ship Classifier for COSMO-SkyMed SAR Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 484-488	4.1	54
103	Crop Classification Based on Temporal Information Using Sentinel-1 SAR Time-Series Data. <i>Remote Sensing</i> , 2019 , 11, 53	5	45
102	Operational Flood Detection Using Sentinel-1 SAR Data over Large Areas. <i>Water (Switzerland)</i> , 2019 , 11, 786	3	45
101	Combining a single shot multibox detector with transfer learning for ship detection using sentinel-1 SAR images. <i>Remote Sensing Letters</i> , 2018 , 9, 780-788	2.3	43
100	Change Detection of Multilook Polarimetric SAR Images Using Heterogeneous Clutter Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 7483-7494	8.1	42
99	Earthquake-Induced Building Damage Detection with Post-Event Sub-Meter VHR TerraSAR-X Staring Spotlight Imagery. <i>Remote Sensing</i> , 2016 , 8, 887	5	42
98	Ship Classification in High-Resolution SAR Images Using Deep Learning of Small Datasets. <i>Sensors</i> , 2018 , 18,	3.8	40
97	Seasonal deformation features on Qinghai-Tibet railway observed using time-series InSAR technique with high-resolution TerraSAR-X images. <i>Remote Sensing Letters</i> , 2017 , 8, 1-10	2.3	36
96	Backscattering Feature Analysis and Recognition of Civilian Aircraft in TerraSAR-X Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 796-800	4.1	32
95	Analysis of Permafrost Region Coherence Variation in the Qinghai-Tibet Plateau with a High-Resolution TerraSAR-X Image. <i>Remote Sensing</i> , 2018 , 10, 298	5	32
94	Active Layer Thickness Retrieval of Qinghai-Tibet Permafrost Using the TerraSAR-X InSAR Technique. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 4403-4413	4.7	29
93	Time-Series InSAR Monitoring of Permafrost Freeze-Thaw Seasonal Displacement over Qinghai-Tibetan Plateau Using Sentinel-1 Data. <i>Remote Sensing</i> , 2019 , 11, 1000	5	23
92	Subsidence monitoring in coal area using time-series InSAR combining persistent scatterers and distributed scatterers. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015 , 39, 49-55	7.3	23

91	Urban Building Change Detection in SAR Images Using Combined Differential Image and Residual U-Net Network. <i>Remote Sensing</i> , 2019 , 11, 1091	5	22
90	A unified framework for crop classification in southern China using fully polarimetric, dual polarimetric, and compact polarimetric SAR data. <i>International Journal of Remote Sensing</i> , 2015 , 36, 3798-3818 ¹⁹	3.1	19
89	Fine-grained ship classification based on deep residual learning for high-resolution SAR images. <i>Remote Sensing Letters</i> , 2019 , 10, 1095-1104	2.3	19
88	Capability of Rice Mapping Using Hybrid Polarimetric SAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 3812-3822	4.7	17
87	Analysis of ground subsidence at a coal-mining area in Huainan using time-series InSAR. <i>International Journal of Remote Sensing</i> , 2015 , 36, 5790-5810	3.1	16
86	Signature Analysis of Building Damage With TerraSAR-X New Staring SpotLight Mode Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016 , 13, 1696-1700	4.1	16
85	Investigation of the Capability of α Decomposition of Compact Polarimetric SAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 868-872	4.1	15
84	SAR Image Change Detection Using Saliency Extraction and Shearlet Transform. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 4701-4710	4.7	14
83	Multiple Targets Deception Jamming Against ISAR Based on Periodic $0-\pi$ Phase Modulation. <i>IEEE Access</i> , 2018 , 6, 3539-3548	3.5	13
82	Multitemporal Water Extraction of Dongting Lake and Poyang Lake Based on an Automatic Water Extraction and Dynamic Monitoring Framework. <i>Remote Sensing</i> , 2021 , 13, 865	5	13
81	Classification of Vessels in Single-Pol COSMO-SkyMed Images Based on Statistical and Structural Features. <i>Remote Sensing</i> , 2015 , 7, 5511-5533	5	12
80	Compact Polarimetric SAR Ship Detection with m -Decomposition Using Visual Attention Model. <i>Remote Sensing</i> , 2016 , 8, 751	5	12
79	Monitoring of large-scale landslides in Zongling, Guizhou, China, with improved distributed scatterer interferometric SAR time series methods. <i>Landslides</i> , 2020 , 17, 1777-1795	6.6	12
78	A PolSAR ship detector based on a multi-polarimetric-feature combination using visual attention. <i>International Journal of Remote Sensing</i> , 2014 , 35, 7763-7774	3.1	11
77	Surface Deformation Monitoring in Zhengzhou City from 2014 to 2016 Using Time-Series InSAR. <i>Remote Sensing</i> , 2018 , 10, 1731	5	11
76	An SAR ATR Method Based on Scattering Centre Feature and Bipartite Graph Matching. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2015 , 32, 364-375	1.5	10
75	Characterization of the giant landslide at Wenjiagou by the insar technique using TSX-TDX CoSSC data. <i>Landslides</i> , 2015 , 12, 1015-1021	6.6	10
74	2017 ,		10

73	Combining single shot multibox detector with transfer learning for ship detection using Sentinel-1 images 2017 ,		10
72	Combing Single Shot Multibox Detector with transfer learning for ship detection using Chinese Gaofen-3 images 2017 ,		10
71	Active Layer Thickness Retrieval Over the Qinghai-Tibet Plateau Using Sentinel-1 Multitemporal InSAR Monitored Permafrost Subsidence and Temporal-Spatial Multilayer Soil Moisture Data. <i>IEEE Access</i> , 2020 , 8, 84336-84351	3.5	9
70	Ship detection method for single-polarization synthetic aperture radar imagery based on target enhancement and nonparametric clutter estimation. <i>Journal of Applied Remote Sensing</i> , 2015 , 9, 096073	1.4	8
69	A Two-Component Deep Learning Network for SAR Image Denoising. <i>IEEE Access</i> , 2020 , 8, 17792-17803	3.5	8
68	Operational Built-Up Areas Extraction for Cities in China Using Sentinel-1 SAR Data. <i>Remote Sensing</i> , 2018 , 10, 874	5	8
67	SAR object classification using the DAE with a modified triplet restriction. <i>IET Radar, Sonar and Navigation</i> , 2019 , 13, 1081-1091	1.4	8
66	Automatic Detection of Low-Rise Gable-Roof Building from Single Submeter SAR Images Based on Local Multilevel Segmentation. <i>Remote Sensing</i> , 2017 , 9, 263	5	8
65	MW-ACGAN: Generating Multiscale High-Resolution SAR Images for Ship Detection. <i>Sensors</i> , 2020 , 20,	3.8	8
64	Multi-Temporal InSAR Parallel Processing for Sentinel-1 Large-Scale Surface Deformation Mapping. <i>Remote Sensing</i> , 2020 , 12, 3749	5	8
63	Time Series InSAR Three-Dimensional Displacement Inversion Model of Coal Mining Areas Based on Symmetrical Features of Mining Subsidence. <i>Remote Sensing</i> , 2021 , 13, 2143	5	8
62	Classification of very high resolution SAR image based on convolutional neural network 2017 ,		7
61	Small-Baseline Approach for Monitoring the Freezing and Thawing Deformation of Permafrost on the Beiluhe Basin, Tibetan Plateau Using TerraSAR-X and Sentinel-1 Data. <i>Sensors</i> , 2020 , 20,	3.8	7
60	Deformation Feature Analysis of Qinghai-Tibet Railway Using TerraSAR-X and Sentinel-1A Time-Series Interferometry. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 5199-5212	4.7	7
59	Permafrost Soil Moisture Monitoring Using Multi-Temporal TerraSAR-X Data in Beiluhe of Northern Tibet, China. <i>Remote Sensing</i> , 2018 , 10, 1577	5	7
58	Built-up area mapping in China from GF-3 SAR imagery based on the framework of deep learning. <i>Remote Sensing of Environment</i> , 2021 , 262, 112515	13.2	7
57	An adaptive two-scale enhancement method to visualize man-made objects in very high resolution SAR images. <i>Remote Sensing Letters</i> , 2015 , 6, 725-734	2.3	6
56	Identification of changes in urban land cover type using fully polarimetric SAR data. <i>Remote Sensing Letters</i> , 2016 , 7, 691-700	2.3	6

55	Sea Ice Classification with Convolutional Neural Networks Using Sentinel-L Scansar Images 2018 ,		6
54	Ship classification with deep learning using COSMO-SkyMed SAR data 2017 ,		5
53	Similarity analysis of entropy/alpha decomposition between HH/VV dual- and quad-polarization SAR data. <i>Remote Sensing Letters</i> , 2015 , 6, 228-237	2.3	5
52	SAR Image Ship Object Generation and Classification With Improved Residual Conditional Generative Adversarial Network. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 1-5	4.1	5
51	First mapping of China surface movement using supercomputing interferometric SAR technique. <i>Science Bulletin</i> , 2021 , 66, 1608-1608	10.6	5
50	Residual Unet for Urban Building Change Detection with Sentinel-1 SAR Data 2019 ,		5
49	Map and Quantify the Ground Deformation Around Salt Lake in Hoh Xil, Qinghai-Tibet Plateau Using Time-Series InSAR From 2006 to 2018. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 858-869	4.7	5
48	The deformation analysis of Wenjiagou giant landslide by the distributed scatterer interferometry technique. <i>Landslides</i> , 2018 , 15, 347-357	6.6	5
47	A Review of Satellite Synthetic Aperture Radar Interferometry Applications in Permafrost Regions: Current Status, Challenges, and Trends. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2022 , 2-23	8.9	5
46	Polarimetric synthetic aperture radar change detection for specific land cover types. <i>International Journal of Digital Earth</i> , 2015 , 8, 334-344	3.9	4
45	Freeze-Thaw Deformation Cycles and Temporal-Spatial Distribution of Permafrost along the Qinghai-Tibet Railway Using Multitrack InSAR Processing. <i>Remote Sensing</i> , 2021 , 13, 4744	5	4
44	Detecting Rock Glacier Displacement in the Central Himalayas Using Multi-Temporal InSAR. <i>Remote Sensing</i> , 2021 , 13, 4738	5	4
43	Spaceborne SAR Data for Regional Urban Mapping Using a Robust Building Extractor. <i>Remote Sensing</i> , 2020 , 12, 2791	5	4
42	Deformation Estimation for Time Series InSAR Using Simulated Annealing Algorithm. <i>Sensors</i> , 2018 , 19,	3.8	4
41	Superpixel-based PolSAR images change detection 2015 ,		3
40	Large-Scale Rice Mapping of Thailand using Sentinel-1 Multi-Temporal SAR Data 2019 ,		3
39	A novel jamming method against LFM radar using pseudo-random code phase modulation 2017 ,		3
38	Residual encoder-decoder network introduced for multisource SAR image despeckling 2017 ,		3

37	Detectability Analysis of Road Vehicles in Radarsat-2 Fully Polarimetric SAR Images for Traffic Monitoring. <i>Sensors</i> , 2017 , 17,	3.8	3
36	Paddy Rice Mapping in Thailand Using Time-Series Sentinel-1 Data and Deep Learning Model. <i>Remote Sensing</i> , 2021 , 13, 3994	5	3
35	Multi-Sensor SAR Image Registration Based on Object Shape. <i>Remote Sensing</i> , 2016 , 8, 923	5	3
34	Monitoring permafrost soil moisture with multi-temporal TERRASAR-X data in northern tibet 2016 ,		3
33	Detection of Land Use Change in Urban Agglomeration using Sentinel-1 SAR Data 2019 ,		3
32	Ship Discrimination with Deep Convolutional Neural Networks in Sar Images 2018 ,		3
31	Classification of Chinese GaoFen-3 fully-polarimetric SAR images: Initial results 2017 ,		2
30	An efficient object-oriented method of Azimuth ambiguities removal for ship detection in SAR images 2017 ,		2
29	Supervised Locally Linear Embedding for polarimetric SAR image classification 2016 ,		2
28	Integrating H-A- α with fully convolutional networks for fully PolSAR classification 2017 ,		2
27	A novel ship detection method based on Shannon entropy in Chinese Gaofen-3 fully polarimetric SAR images 2017 ,		2
26	Residential area extraction based on conditional generative adversarial networks 2017 ,		2
25	Automatic Monitoring Method for Surface Deformation of Coastal Area Based on Time Series Analysis. <i>Journal of Coastal Research</i> , 2019 , 93, 194	0.6	2
24	Matching multi-source DEMs in mountainous terrains. <i>Remote Sensing Letters</i> , 2016 , 7, 571-580	2.3	2
23	Soil Moisture Estimation based on the Distributed Scatterers Adaptive Filter over the QTP Permafrost Region using Sentinel-1 and High-resolution TerraSAR-X Data. <i>International Journal of Remote Sensing</i> , 2021 , 42, 902-928	3.1	2
22	A Classification Method for Polsar Images using SLIC Superpixel Segmentation and Deep Convolution Neural Network 2018 ,		2
21	Interferometric SAR Observation of Permafrost Status in the Northern Qinghai-Tibet Plateau by ALOS, ALOS-2 and Sentinel-1 between 2007 and 2021. <i>Remote Sensing</i> , 2022 , 14, 1870	5	2
20	A Multi-Scale U-Shaped Convolution Auto-Encoder Based on Pyramid Pooling Module for Object Recognition in Synthetic Aperture Radar Images. <i>Sensors</i> , 2020 , 20,	3.8	1

19	Quad-pol reconstruction from compact polarimetry using a fully convolutional network. <i>Remote Sensing Letters</i> , 2020 , 11, 397-406	2.3	1
18	Rigorously geometric correction for air-borne SAR images based on affine transformation 2016 ,		1
17	SAR image change detection based on object-based method 2013 ,		1
16	2017 ,		1
15	Fine permafrost deformation features observed using TerraSAR-X ST mode InSAR in Beiluhe of the Qinghai-Tibet Plateau, West China 2015 ,		1
14	Damage building analysis in TerraSAR-X new staring spotlight mode SAR imagery 2015 ,		1
13	SAR-based ship detection in sea areas containing small islands 2015 ,		1
12	High-voltage transmission towers detection using hybrid polarimetric SAR data 2014 ,		1
11	Improving CPT-InSAR Algorithm with Adaptive Coherent Distributed Pixels Selection. <i>Remote Sensing</i> , 2021 , 13, 4784	5	1
10	High Performance Computing for CS-InSAR Data Processing 2021 ,		1
9	Weakly supervised ship detection from SAR images based on a three-component CNN-CAM-CRF model. <i>Journal of Applied Remote Sensing</i> , 2020 , 14, 1	1.4	1
8	Surface deformation monitoring using time series TerraSAR-X images over permafrost of Qinghai-Tibet Plateau, China 2016 ,		1
7	Corn Fine Classification With Gf-3 High-Resolution Sar Data Based on Deep Learning 2019 ,		1
6	Discrimination of Collapsed Buildings from Remote Sensing Imagery Using Deep Neural Networks 2019 ,		1
5	Roll-Invariant Target Parameter Extraction From POLSAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 4502-4516	4.7	1
4	Scatter coherence suppression for TomoSAR in urban areas. <i>Remote Sensing Letters</i> , 2015 , 6, 894-903	2.3	0
3	InSAR Phase Unwrapping by Deep Learning Based on Gradient Information Fusion. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 19, 1-5	4.1	0
2	Rice Mapping Using a BiLSTM-Attention Model from Multitemporal Sentinel-1 Data. <i>Agriculture (Switzerland)</i> , 2021 , 11, 977	3	0

- 1 Azimuth-Sensitive Object Detection of High-Resolution SAR Images in Complex Scenes by Using a Spatial Orientation Attention Enhancement Network. *Remote Sensing*, **2022**, 14, 2198

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