

Xiao Xiang Zhu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11124998/publications.pdf>

Version: 2024-02-01

206
papers

13,136
citations

25034

57
h-index

24258

110
g-index

207
all docs

207
docs citations

207
times ranked

8128
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning in Remote Sensing: A Comprehensive Review and List of Resources. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 8-36.	9.6	1,976
2	Deep Recurrent Neural Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3639-3655.	6.3	937
3	An Augmented Linear Mixing Model to Address Spectral Variability for Hyperspectral Unmixing. IEEE Transactions on Image Processing, 2019, 28, 1923-1938.	9.8	643
4	Tomographic SAR Inversion by L_{1} -Norm Regularization—The Compressive Sensing Approach. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3839-3846.	6.3	420
5	A Sparse Image Fusion Algorithm With Application to Pan-Sharpener. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2827-2836.	6.3	378
6	Very High Resolution Spaceborne SAR Tomography in Urban Environment. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 4296-4308.	6.3	372
7	Learning Spectral-Spatial-Temporal Features via a Recurrent Convolutional Neural Network for Change Detection in Multispectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 924-935.	6.3	346
8	Super-Resolution Power and Robustness of Compressive Sensing for Spectral Estimation With Application to Spaceborne Tomographic SAR. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 247-258.	6.3	261
9	Semantic segmentation of slums in satellite images using transfer learning on fully convolutional neural networks. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 150, 59-69.	11.1	233
10	Invariant Attribute Profiles: A Spatial-Frequency Joint Feature Extractor for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3791-3808.	6.3	228
11	Unsupervised Spectral—Spatial Feature Learning via Deep Residual Conv—Deconv Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 391-406.	6.3	217
12	Data Fusion and Remote Sensing: An ever-growing relationship. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 6-23.	9.6	212
13	Building instance classification using street view images. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 44-59.	11.1	210
14	Learnable manifold alignment (LeMA): A semi-supervised cross-modality learning framework for land cover and land use classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 147, 193-205.	11.1	206
15	Superresolving SAR Tomography for Multidimensional Imaging of Urban Areas: Compressive sensing-based TomoSAR inversion. IEEE Signal Processing Magazine, 2014, 31, 51-58.	5.6	204
16	CoSpace: Common Subspace Learning From Hyperspectral-Multispectral Correspondences. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4349-4359.	6.3	180
17	Cloud removal in Sentinel-2 imagery using a deep residual neural network and SAR-optical data fusion. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 166, 333-346.	11.1	179
18	X-ModalNet: A semi-supervised deep cross-modal network for classification of remote sensing data. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 12-23.	11.1	163

#	ARTICLE	IF	CITATIONS
19	Identifying Corresponding Patches in SAR and Optical Images With a Pseudo-Siamese CNN. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 784-788.	3.1	162
20	HSF-Net: Multiscale Deep Feature Embedding for Ship Detection in Optical Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7147-7161.	6.3	147
21	Deep Learning Meets SAR: Concepts, models, pitfalls, and perspectives. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 143-172.	9.6	144
22	Vehicle Instance Segmentation From Aerial Image and Video Using a Multitask Learning Residual Fully Convolutional Network. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6699-6711.	6.3	140
23	Demonstration of Super-Resolution for Tomographic SAR Imaging in Urban Environment. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3150-3157.	6.3	133
24	A Relation-Augmented Fully Convolutional Network for Semantic Segmentation in Aerial Scenes. , 2019, , .		129
25	Multimodal remote sensing benchmark datasets for land cover classification with a shared and specific feature learning model. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 178, 68-80.	11.1	128
26	Learning to propagate labels on graphs: An iterative multitask regression framework for semi-supervised hyperspectral dimensionality reduction. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 35-49.	11.1	124
27	Extinction Profiles for the Classification of Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5631-5645.	6.3	122
28	Relation Matters: Relational Context-Aware Fully Convolutional Network for Semantic Segmentation of High-Resolution Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7557-7569.	6.3	122
29	A Self-Improving Convolution Neural Network for the Classification of Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1537-1541.	3.1	117
30	Recurrently exploring class-wise attention in a hybrid convolutional and bidirectional LSTM network for multi-label aerial image classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 149, 188-199.	11.1	111
31	Exploiting Joint Sparsity for Pansharpening: The J-SparseFI Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2664-2681.	6.3	105
32	Local climate zone-based urban land cover classification from multi-seasonal Sentinel-2 images with a recurrent residual network. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 154, 151-162.	11.1	101
33	Building segmentation through a gated graph convolutional neural network with deep structured feature embedding. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 159, 184-197.	11.1	91
34	Let's Do the Time Warp: Multicomponent Nonlinear Motion Estimation in Differential SAR Tomography. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 735-739.	3.1	87
35	Facade Reconstruction Using Multiview Spaceborne TomoSAR Point Clouds. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3541-3552.	6.3	85
36	Learning a Robust Local Manifold Representation for Hyperspectral Dimensionality Reduction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2960-2975.	4.9	82

#	ARTICLE	IF	CITATIONS
37	Buildings Detection in VHR SAR Images Using Fully Convolution Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1100-1116.	6.3	82
38	So2Sat LCZ42: A Benchmark Data Set for the Classification of Global Local Climate Zones [Software and Data Sets]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 76-89.	9.6	74
39	Precise Three-Dimensional Stereo Localization of Corner Reflectors and Persistent Scatterers With TerraSAR-X. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1782-1802.	6.3	71
40	Joint and Progressive Subspace Analysis (JPSA) With Spatialâ€“Spectral Manifold Alignment for Semisupervised Hyperspectral Dimensionality Reduction. IEEE Transactions on Cybernetics, 2021, 51, 3602-3615.	9.5	71
41	On Creating Benchmark Dataset for Aerial Image Interpretation: Reviews, Guidances, and Million-AID. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4205-4230.	4.9	71
42	HED-UNet: Combined Segmentation and Edge Detection for Monitoring the Antarctic Coastline. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	70
43	SULoRA: Subspace Unmixing With Low-Rank Attribute Embedding for Hyperspectral Data Analysis. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1351-1363.	10.8	69
44	Retrieval of phase history parameters from distributed scatterers in urban areas using very high resolution SAR data. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 73, 89-99.	11.1	67
45	Mapping the Land Cover of Africa at 10 m Resolution from Multi-Source Remote Sensing Data with Google Earth Engine. Remote Sensing, 2020, 12, 602.	4.0	67
46	Geodetic SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 18-35.	6.3	65
47	Model Fusion for Building Type Classification from Aerial and Street View Images. Remote Sensing, 2019, 11, 1259.	4.0	65
48	R ³ -Net: A Deep Network for Multioriented Vehicle Detection in Aerial Images and Videos. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5028-5042.	6.3	65
49	Feature Extraction and Selection of Sentinel-1 Dual-Pol Data for Global-Scale Local Climate Zone Classification. ISPRS International Journal of Geo-Information, 2018, 7, 379.	2.9	62
50	Relation Network for Multilabel Aerial Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4558-4572.	6.3	62
51	Joint Sparsity in SAR Tomography for Urban Mapping. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1498-1509.	10.8	61
52	Hyperspectral Data Classification Using Extended Extinction Profiles. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1641-1645.	3.1	61
53	Fusing Meter-Resolution 4-D InSAR Point Clouds and Optical Images for Semantic Urban Infrastructure Monitoring. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 14-26.	6.3	61
54	Nonlocal Tensor Completion for Multitemporal Remotely Sensed Imagesâ€™ Inpainting. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3047-3061.	6.3	60

#	ARTICLE	IF	CITATIONS
55	Robust Estimators for Multipass SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 968-980.	6.3	59
56	Multisensor Data Fusion for Cloud Removal in Global and All-Season Sentinel-2 Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5866-5878.	6.3	58
57	The urban morphology on our planet – Global perspectives from space. Remote Sensing of Environment, 2022, 269, 112794.	11.0	58
58	Mapping horizontal and vertical urban densification in Denmark with Landsat time-series from 1985 to 2018: A semantic segmentation solution. Remote Sensing of Environment, 2020, 251, 112096.	11.0	57
59	Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 752-769.	6.3	56
60	MIMA: MAPPER-Induced Manifold Alignment for Semi-Supervised Fusion of Optical Image and Polarimetric SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9025-9040.	6.3	56
61	Building Footprint Generation by Integrating Convolution Neural Network With Feature Pairwise Conditional Random Field (FPCRF). IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7502-7519.	6.3	56
62	Feature Importance Analysis for Local Climate Zone Classification Using a Residual Convolutional Neural Network with Multi-Source Datasets. Remote Sensing, 2018, 10, 1572.	4.0	53
63	ℓ_1 -Regularization-Based SAR Imaging and CFAR Detection via Complex Approximated Message Passing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3426-3440.	6.3	51
64	Long-Term Annual Mapping of Four Cities on Different Continents by Applying a Deep Information Learning Method to Landsat Data. Remote Sensing, 2018, 10, 471.	4.0	50
65	A framework for large-scale mapping of human settlement extent from Sentinel-2 images via fully convolutional neural networks. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 163, 152-170.	11.1	46
66	Jointly sparse fusion of hyperspectral and multispectral imagery. , 2013, , .		44
67	Automatic Detection and Reconstruction of 2-D/3-D Building Shapes From Spaceborne TomoSAR Point Clouds. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1292-1310.	6.3	44
68	Mining Hard Negative Samples for SAR-Optical Image Matching Using Generative Adversarial Networks. Remote Sensing, 2018, 10, 1552.	4.0	44
69	A Review of Ten-Year Advances of Multi-Baseline SAR Interferometry Using TerraSAR-X Data. Remote Sensing, 2018, 10, 1374.	4.0	44
70	Nonlocal Compressive Sensing-Based SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3015-3024.	6.3	43
71	Unsupervised Deep Joint Segmentation of Multitemporal High-Resolution Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8780-8792.	6.3	42
72	Multilevel Feature Fusion-Based CNN for Local Climate Zone Classification From Sentinel-2 Images: Benchmark Results on the So2Sat LCZ42 Dataset. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2793-2806.	4.9	41

#	ARTICLE	IF	CITATIONS
73	Learning-Shared Cross-Modality Representation Using Multispectral-LiDAR and Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1470-1474.	3.1	41
74	An Efficient Tomographic Inversion Approach for Urban Mapping Using Meter Resolution SAR Image Stacks. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1250-1254.	3.1	39
75	Large-Area Characterization of Urban Morphologyâ€™ Mapping of Built-Up Height and Density Using TanDEM-X and Sentinel-2 Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2912-2927.	4.9	39
76	SEN12MS-CR-TS: A Remote-Sensing Data Set for Multimodal Multitemporal Cloud Removal. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	39
77	Building Footprint Generation Using Improved Generative Adversarial Networks. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 603-607.	3.1	38
78	Spatiotemporal scene interpretation of space videos via deep neural network and tracklet analysis. , 2016, , .		35
79	FusioNet: A two-stream convolutional neural network for urban scene classification using PolSAR and hyperspectral data. , 2017, , .		35
80	Semantic Segmentation of Remote Sensing Images With Sparse Annotations. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	34
81	Three-Dimensional Deformation Monitoring of Urban Infrastructure by Tomographic SAR Using Multitrack TerraSAR-X Data Stacks. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6868-6878.	6.3	33
82	Deep Reinforcement Learning for Band Selection in Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	32
83	Compressive sensing reconstruction of 3D wet refractivity based on GNSS and InSAR observations. Journal of Geodesy, 2019, 93, 197-217.	3.6	31
84	Robust Object-Based Multipass InSAR Deformation Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4239-4251.	6.3	29
85	Object-Based Multipass InSAR via Robust Low-Rank Tensor Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3062-3077.	6.3	29
86	Reconstruction of individual trees from multi-aspect TomoSAR data. Remote Sensing of Environment, 2015, 165, 175-185.	11.0	28
87	A Nonlocal InSAR Filter for High-Resolution DEM Generation From TanDEM-X Interferograms. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6469-6483.	6.3	28
88	Spaceborne Staring Spotlight SAR Tomographyâ€™ A First Demonstration With TerraSAR-X. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3743-3756.	4.9	27
89	A framework for SAR-optical stereogrammetry over urban areas. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 389-408.	11.1	26
90	Automatic Feature-Based Geometric Fusion of Multiview TomoSAR Point Clouds in Urban Area. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 953-965.	4.9	25

#	ARTICLE	IF	CITATIONS
91	Are the Poor Digitally Left Behind? Indications of Urban Divides Based on Remote Sensing and Twitter Data. ISPRS International Journal of Geo-Information, 2018, 7, 304.	2.9	25
92	Adversarial Shape Learning for Building Extraction in VHR Remote Sensing Images. IEEE Transactions on Image Processing, 2022, 31, 678-690.	9.8	25
93	A Comparative Review of Manifold Learning Techniques for Hyperspectral and Polarimetric SAR Image Fusion. Remote Sensing, 2019, 11, 681.	4.0	24
94	Land consumption in cities: A comparative study across the globe. Cities, 2021, 113, 103163.	5.6	24
95	ERA: A Data Set and Deep Learning Benchmark for Event Recognition in Aerial Videos [Software and Data Sets]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 125-133.	9.6	23
96	Multisensor Coupled Spectral Unmixing for Time-Series Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2842-2857.	6.3	22
97	A Fast and Accurate Basis Pursuit Denoising Algorithm With Application to Super-Resolving Tomographic SAR. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-11.	6.3	22
98	Fusion of Heterogeneous Earth Observation Data for the Classification of Local Climate Zones. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7623-7642.	6.3	22
99	Tomo-GENESIS: DLR's tomographic SAR processing system. , 2013, , .		21
100	Fusion of TanDEM-X and Cartosat-1 elevation data supported by neural network-predicted weight maps. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 144, 285-297.	11.1	20
101	Attention-Aware Pseudo-3-D Convolutional Neural Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7790-7802.	6.3	20
102	Large-scale building height retrieval from single SAR imagery based on bounding box regression networks. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 184, 79-95.	11.1	20
103	Fusing Multiseasonal Sentinel-2 Imagery for Urban Land Cover Classification With Multibranch Residual Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1787-1791.	3.1	19
104	Î³-Net: Superresolving SAR Tomographic Inversion via Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	19
105	An Advanced Dirichlet Prior Network for Out-of-Distribution Detection in Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	18
106	Label Relation Inference for Multi-Label Aerial Image Classification. , 2019, , .		17
107	Towards automatic SAR-optical stereogrammetry over urban areas using very high resolution imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 218-231.	11.1	16
108	Geocoding Error Correction for InSAR Point Clouds. Remote Sensing, 2018, 10, 1523.	4.0	16

#	ARTICLE	IF	CITATIONS
109	The SARptical Dataset for Joint Analysis of SAR and Optical Image in Dense Urban Area. , 2018, , .		16
110	WU-Net: A Weakly-Supervised Unmixing Network for Remotely Sensed Hyperspectral Imagery. , 2019, , .		16
111	Automatic registration of a single SAR image and GIS building footprints in a large-scale urban area. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 170, 1-14.	11.1	16
112	CG-Net: Conditional GIS-Aware Network for Individual Building Segmentation in VHR SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	15
113	Change Detection in Hyperdimensional Images Using Untrained Models. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11029-11041.	4.9	15
114	Learning Multi-Label Aerial Image Classification Under Label Noise: A Regularization Approach Using Word Embeddings. , 2020, , .		15
115	Potential and limits of non-local means InSAR filtering for TanDEM-X high-resolution DEM generation. Remote Sensing of Environment, 2018, 218, 148-161.	11.0	14
116	Geo-spatial text-mining from Twitter â€œ a feature space analysis with a view toward building classification in urban regions. European Journal of Remote Sensing, 2019, 52, 2-11.	3.5	14
117	Cloud Removal in Unpaired Sentinel-2 Imagery Using Cycle-Consistent GAN and SAR-Optical Data Fusion. , 2020, , .		14
118	From Easy to Hard: Learning Language-Guided Curriculum for Visual Question Answering on Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	14
119	Hierarchical Region Based Convolution Neural Network for Multiscale Object Detection in Remote Sensing Images. , 2018, , .		13
120	Aerial scene understanding in the wild: Multi-scene recognition via prototype-based memory networks. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 177, 89-102.	11.1	13
121	Changes in Twitter geolocations: Insights and suggestions for future usage. , 2021, , .		13
122	Sparse tomographic SAR reconstruction from mixed TerraSAR-X/TanDEM-X data stacks. , 2012, , .		12
123	Demonstration of Single-Pass Millimeterwave SAR Tomography for Forest Volumes. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 202-206.	3.1	12
124	Learning a low-coherence dictionary to address spectral variability for hyperspectral unmixing. , 2017, , .		12
125	Automatic Detection and Positioning of Ground Control Points Using TerraSAR-X Multiaspect Acquisitions. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2613-2632.	6.3	12
126	Classification of Settlement Types from Tweets Using LDA and LSTM. , 2018, , .		12

#	ARTICLE	IF	CITATIONS
127	A Multispectral and Multiangle 3-D Convolutional Neural Network for the Classification of ZY-3 Satellite Images Over Urban Areas. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10266-10285.	6.3	12
128	Multitarget Domain Adaptation for Remote Sensing Classification Using Graph Neural Network. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	12
129	Operational TomoSAR processing using TerraSAR-X high resolution spotlight stacks from multiple view angles. , 2012, , .		11
130	Compressive sensing for neutrospheric water vapor tomography using GNSS and InSAR observations. , 2015, , .		10
131	Local manifold learning with robust neighbors selection for hyperspectral dimensionality reduction. , 2016, , .		10
132	Fully conv-deconv network for unsupervised spectral-spatial feature extraction of hyperspectral imagery via residual learning. , 2017, , .		10
133	Potential of nonlocally filtered pursuit monostatic TanDEM-X data for coastline detection. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 148, 130-141.	11.1	10
134	Corrections to "Deep Recurrent Neural Networks for Hyperspectral Image Classification" [Jul 17 3639-3655]. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1214-1215.	6.3	9
135	Large-scale Building Height Estimation from Single VHR SAR image Using Fully Convolutional Network and GIS building footprints. , 2019, , .		9
136	Slum Mapping in Imbalanced Remote Sensing Datasets Using Transfer Learned Deep Features. , 2019, , .		9
137	Can linguistic features extracted from geo-referenced tweets help building function classification in remote sensing?. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 255-268.	11.1	9
138	Building height estimation in single SAR image using OSM building footprints. , 2017, , .		8
139	Bistatic-Like Differential SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5883-5893.	6.3	8
140	Spatial Context Awareness for Unsupervised Change Detection in Optical Satellite Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	8
141	Analysis of interpolation schemes for the accurate estimation of energy spectrum in Lagrangian methods. Computers and Fluids, 2013, 82, 122-131.	2.5	7
142	Building Footprint Generation Through Convolutional Neural Networks With Attraction Field Representation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	7
143	SDFL-FC: Semisupervised Deep Feature Learning With Feature Consistency for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10488-10502.	6.3	7
144	Self-Paced Curriculum Learning for Visual Question Answering on Remote Sensing Data. , 2021, , .		7

#	ARTICLE	IF	CITATIONS
145	InSAR Forensics: Tracing InSAR Scatterers in High Resolution Optical Image. , 2015, , .		7
146	RegGAN: An End-to-End Network for Building Footprint Generation with Boundary Regularization. Remote Sensing, 2022, 14, 1835.	4.0	7
147	Object-based InSAR deformation reconstruction with application to bridge monitoring. , 2016, , .		6
148	Identifying corresponding patches in SAR and optical imagery with a convolutional neural network. , 2017, , .		6
149	Spatial Relational Reasoning in Networks for Improving Semantic Segmentation of Aerial Images. , 2019, , .		6
150	SCAF-Net: Scene Context Attention-Based Fusion Network for Vehicle Detection in Aerial Imagery. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
151	An Overview of Multimodal Remote Sensing Data Fusion: From Image to Feature, From Shallow to Deep. , 2021, , .		6
152	On the Fusion Strategies of Sentinel-1 and Sentinel-2 Data for Local Climate Zone Classification. , 2020, , .		6
153	Building Instance Classification using Social Media Images. , 2019, , .		5
154	Fusing Multi-Seasonal Sentinel-2 Images with Residual Convolutional Neural Networks for Local Climate Zone-Derived Urban Land Cover Classification. , 2019, , .		5
155	Building Type Classification from Social Media Texts via Geo-Spatial Textmining. , 2019, , .		5
156	MultiScene: A Large-Scale Dataset and Benchmark for Multiscene Recognition in Single Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	5
157	Trusting Small Training Dataset for Supervised Change Detection. , 2021, , .		5
158	Progressive Unsupervised Deep Transfer Learning for Forest Mapping in Satellite Image. , 2021, , .		5
159	CrossGeoNet: A Framework for Building Footprint Generation of Label-Scarce Geographical Regions. International Journal of Applied Earth Observation and Geoinformation, 2022, 111, 102824.	1.9	5
160	Sparse reconstruction techniques for SAR tomography. , 2011, , .		4
161	GPU-based nonlocal filtering for large scale SAR processing. , 2016, , .		4
162	Feature Importance Analysis of Sentinel-2 Imagery for Large-Scale Urban Local Climate Zone Classification. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
163	SAR Tomography via Nonlinear Blind Scatterer Separation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5751-5763.	6.3	4
164	Mitigating Spatial and Spectral Differences for Change Detection Using Super-Resolution and Unsupervised Learning. , 2021, , .		4
165	Super-Resolving Sar Tomography Using Deep Learning. , 2021, , .		4
166	SAR4LCZ-Net: A Complex-Valued Convolutional Neural Network for Local Climate Zones Classification Using Gaofen-3 Quad-Pol SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	4
167	The K-LLE algorithm for nonlinear dimensionality reduction of large-scale hyperspectral data. , 2016, , .		3
168	SAR ground control point identification with the aid of high resolution optical data. , 2016, , .		3
169	Generative Adversarial Networks for Hard Negative Mining in CNN-Based SAR-Optical Image Matching. , 2018, , .		3
170	End-to-End Semantic Segmentation and Boundary Regularization of Buildings from Satellite Imagery. , 2021, , .		3
171	Mask-Height R-CNN: An End-to-End Network for 3D Building Reconstruction from Monocular Remote Sensing Imagery. , 2021, , .		3
172	Deep Relearning in the Geospatial Domain for Semantic Remote Sensing Image Segmentation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
173	Semi-Supervised Building Footprint Generation With Feature and Output Consistency Training. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	3
174	Multi-component nonlinear motion estimation in differential SAR tomography - the time-warp method. , 2011, , .		2
175	Within the resolution cell: Super-resolution in tomographic SAR imaging. , 2011, , .		2
176	Forest remote sensing on the individual tree level by airborne millimeterwave SAR. , 2016, , .		2
177	Fusion of Urban TanDEM-X Raw DEMs Using Variational Models. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4761-4774.	4.9	2
178	Seeing the Bigger Picture: Enabling Large Context Windows in Neural Networks by Combining Multiple Zoom Levels. , 2021, , .		2
179	Temporal Relations Matter: A Two-Pathway Network for Aerial Video Recognition. , 2021, , .		2
180	Anomaly Detection in Aerial Videos Via Future Frame Prediction Networks. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
181	Event and Activity Recognition in Aerial Videos Using Deep Neural Networks and a New Dataset. , 2020, ,		2
182	Unsupervised Hyperspectral Embedding by Learning a Deep Regression Network. , 2020, ,		2
183	FuTH-Net: Fusing Temporal Relations and Holistic Features for Aerial Video Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	2
184	From TomoSAR Point Clouds to Objects: Façade Reconstruction. , 2012, ,		1
185	Feature-based fusion of tomosar point clouds from multiview TerraSAR-X data stacks. , 2013, ,		1
186	Exploiting sparsity in remote sensing and earth observation: Theory, applications and future trends. , 2015, ,		1
187	Automatic positioning of SAR ground control points from multi-aspect TerraSAR-X acquisitions. , 2017, ,		1
188	Multi-Pass SAR Interferometry for 3D Reconstruction of Complex Mountainous Areas Based on Robust Low Rank Tensor Decomposition. , 2018, ,		1
189	Automatic Registration of SAR Image and GIS Building Footprints Data in Dense Urban Area. , 2019, ,		1
190	Conditional GIS-Aware Network for Individual Building Segmentation in a VHR SAR Image. , 2021, ,		1
191	Efficient SAR Tomographic Inversion via Sparse Bayesian Learning. , 2021, ,		1
192	Building Extraction by Gated Graph Convolutional Neural Network with Deep Structured Feature Embedding. , 2020, ,		1
193	Automatic large area reconstruction of building façades from spaceborne TomoSAR point clouds. , 2014, ,		0
194	Exploiting group sparsity in SAR tomography. , 2015, ,		0
195	Sparse reconstruction automaton for synthetic aperture radar tomography. , 2015, ,		0
196	CFAR detection for the complex approximated message passing reconstructed SAR image. , 2016, ,		0
197	Earth Observation Using SAR and Social Media Images. , 2017, ,		0
198	Towards the Reconstruction of Prismatic Building Models by SAR-Optical Stereogrammetry. , 2019, ,		0

#	ARTICLE	IF	CITATIONS
199	The Challenge of Creating The Sarptical Dataset. , 2019, , .		0
200	Whats Next in AI4EO?. , 2021, , .		0
201	Generation of Large Scale 3-D City Models Using Insar and Optical Data. , 2021, , .		0
202	Hed-Unet: A Multi-Scale Framework for Simultaneous Segmentation and Edge Detection. , 2021, , .		0
203	Unconstrained Aerial Scene Recognition with Deep Neural Networks and a New Dataset. , 2021, , .		0
204	Improving Land Cover Classification with a Shift-Invariant Center-Focusing Convolutional Neural Network. , 2021, , .		0
205	Generation of Large-Scale High Quality 3-D Urban Models*Note: Sub-titles are not captured in Xplore and should not be used. , 2020, , .		0
206	Vision-Based Scattering Key-Frame Extraction for VideoSAR Summarization. , 2020, , .		0