

Xiao Xiang Zhu

List of Publications by Year in descending order

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206
papers

13,136
citations

25034

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times ranked

8128
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Deep Reinforcement Learning for Band Selection in Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	32
3	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
4	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
5	Semantic Segmentation of Remote Sensing Images With Sparse Annotations. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	34
6	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
7	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
8	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
9	The urban morphology on our planet – Global perspectives from space. Remote Sensing of Environment, 2022, 269, 112794.	11.0	58
10	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
11	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
12	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
13	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
14	Adversarial Shape Learning for Building Extraction in VHR Remote Sensing Images. IEEE Transactions on Image Processing, 2022, 31, 678-690.	9.8	25
15	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
16	Multitarget Domain Adaptation for Remote Sensing Classification Using Graph Neural Network. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	12
17	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
18	Î3-Net: Superresolving SAR Tomographic Inversion via Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	19

#	ARTICLE	IF	CITATIONS
19	RegGAN: An End-to-End Network for Building Footprint Generation with Boundary Regularization. Remote Sensing, 2022, 14, 1835.	4.0	7
20	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
21	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
22	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
23	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
24	Joint and Progressive Subspace Analysis (JPSA) With Spatial Spectral Manifold Alignment for Semisupervised Hyperspectral Dimensionality Reduction. IEEE Transactions on Cybernetics, 2021, 51, 3602-3615.	9.5	71
25	SAR Tomography via Nonlinear Blind Scatterer Separation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5751-5763.	6.3	4
26	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
27	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
28	Deep Learning Meets SAR: Concepts, models, pitfalls, and perspectives. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 143-172.	9.6	144
29	Land consumption in cities: A comparative study across the globe. Cities, 2021, 113, 103163.	5.6	24
30	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
31	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
32	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
33	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
34	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
35	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
36	End-to-End Semantic Segmentation and Boundary Regularization of Buildings from Satellite Imagery. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	Whats Next in AI4EO?. , 2021, , .		0
38	Self-Paced Curriculum Learning for Visual Question Answering on Remote Sensing Data. , 2021, , .		7
39	Mitigating Spatial and Spectral Differences for Change Detection Using Super-Resolution and Unsupervised Learning. , 2021, , .		4
40	Seeing the Bigger Picture: Enabling Large Context Windows in Neural Networks by Combining Multiple Zoom Levels. , 2021, , .		2
41	An Overview of Multimodal Remote Sensing Data Fusion: From Image to Feature, From Shallow to Deep. , 2021, , .		6
42	Conditional GIS-Aware Network for Individual Building Segmentation in a VHR SAR Image. , 2021, , .		1
43	Generation of Large Scale 3-D City Models Using Insar and Optical Data. , 2021, , .		0
44	Temporal Relations Matter: A Two-Pathway Network for Aerial Video Recognition. , 2021, , .		2
45	Hed-Unet: A Multi-Scale Framework for Simultaneous Segmentation and Edge Detection. , 2021, , .		0
46	Super-Resolving Sar Tomography Using Deep Learning. , 2021, , .		4
47	Unconstrained Aerial Scene Recognition with Deep Neural Networks and a New Dataset. , 2021, , .		0
48	Anomaly Detection in Aerial Videos Via Future Frame Prediction Networks. , 2021, , .		2
49	Efficient SAR Tomographic Inversion via Sparse Bayesian Learning. , 2021, , .		1
50	Mask-Height R-CNN: An End-to-End Network for 3D Building Reconstruction from Monocular Remote Sensing Imagery. , 2021, , .		3
51	Trusting Small Training Dataset for Supervised Change Detection. , 2021, , .		5
52	Improving Land Cover Classification with a Shift-Invariant Center-Focusing Convolutional Neural Network. , 2021, , .		0
53	Progressive Unsupervised Deep Transfer Learning for Forest Mapping in Satellite Image. , 2021, , .		5
54	Changes in Twitter geolocations: Insights and suggestions for future usage. , 2021, , .		13

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	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
58	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
59	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
60	Unsupervised Deep Joint Segmentation of Multitemporal High-Resolution Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8780-8792.	6.3	42
61	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
62	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
63	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
64	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
65	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
66	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
67	Learning-Shared Cross-Modality Representation Using Multispectral-LiDAR and Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1470-1474.	3.1	41
68	Relation Network for Multilabel Aerial Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4558-4572.	6.3	62
69	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
70	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
71	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
72	Learning Multi-Label Aerial Image Classification Under Label Noise: A Regularization Approach Using Word Embeddings. , 2020, , .		15

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73	Building Extraction by Gated Graph Convolutional Neural Network with Deep Structured Feature Embedding. , 2020, , .		1
74	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
75	On the Fusion Strategies of Sentinel-1 and Sentinel-2 Data for Local Climate Zone Classification. , 2020, , .		6
76	Vision-Based Scattering Key-Frame Extraction for VideoSAR Summarization. , 2020, , .		0
77	Event and Activity Recognition in Aerial Videos Using Deep Neural Networks and a New Dataset. , 2020, , .		2
78	Cloud Removal in Unpaired Sentinel-2 Imagery Using Cycle-Consistent GAN and SAR-Optical Data Fusion. , 2020, , .		14
79	Unsupervised Hyperspectral Embedding by Learning a Deep Regression Network. , 2020, , .		2
80	Compressive sensing reconstruction of 3D wet refractivity based on GNSS and InSAR observations. Journal of Geodesy, 2019, 93, 197-217.	3.6	31
81	Bistatic-Like Differential SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5883-5893.	6.3	8
82	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
83	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
84	Large-scale Building Height Estimation from Single VHR SAR image Using Fully Convolutional Network and GIS building footprints. , 2019, , .		9
85	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
86	Towards the Reconstruction of Prismatic Building Models by SAR-Optical Stereogrammetry. , 2019, , .		0
87	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
88	Slum Mapping in Imbalanced Remote Sensing Datasets Using Transfer Learned Deep Features. , 2019, , .		9
89	Building Instance Classification using Social Media Images. , 2019, , .		5
90	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

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91	Model Fusion for Building Type Classification from Aerial and Street View Images. Remote Sensing, 2019, 11, 1259.	4.0	65
92	CoSpace: Common Subspace Learning From Hyperspectral-Multispectral Correspondences. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4349-4359.	6.3	180
93	Geo-spatial text-mining from Twitter – 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
94	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
95	A Comparative Review of Manifold Learning Techniques for Hyperspectral and Polarimetric SAR Image Fusion. Remote Sensing, 2019, 11, 681.	4.0	24
96	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
97	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
98	A Relation-Augmented Fully Convolutional Network for Semantic Segmentation in Aerial Scenes. , 2019, , .		129
99	The Challenge of Creating The Sarptical Dataset. , 2019, , .		0
100	WU-Net: A Weakly-Supervised Unmixing Network for Remotely Sensed Hyperspectral Imagery. , 2019, , .		16
101	Fusing Multi-Seasonal Sentinel-2 Images with Residual Convolutional Neural Networks for Local Climate Zone-Derived Urban Land Cover Classification. , 2019, , .		5
102	Automatic Registration of SAR Image and GIS Building Footprints Data in Dense Urban Area. , 2019, , .		1
103	Building Type Classification from Social Media Texts via Geo-Spatial Textmining. , 2019, , .		5
104	Label Relation Inference for Multi-Label Aerial Image Classification. , 2019, , .		17
105	Spatial Relational Reasoning in Networks for Improving Semantic Segmentation of Aerial Images. , 2019, , .		6
106	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
107	Building Footprint Generation Using Improved Generative Adversarial Networks. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 603-607.	3.1	38
108	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

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109	An Augmented Linear Mixing Model to Address Spectral Variability for Hyperspectral Unmixing. IEEE Transactions on Image Processing, 2019, 28, 1923-1938.	9.8	643
110	Nonlocal Compressive Sensing-Based SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3015-3024.	6.3	43
111	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
112	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
113	Building instance classification using street view images. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 44-59.	11.1	210
114	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
115	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
116	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
117	Nonlocal Tensor Completion for Multitemporal Remotely Sensed Images™ Inpainting. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3047-3061.	6.3	60
118	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
119	Object-Based Multipass InSAR via Robust Low-Rank Tensor Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3062-3077.	6.3	29
120	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
121	Geocoding Error Correction for InSAR Point Clouds. Remote Sensing, 2018, 10, 1523.	4.0	16
122	Generative Adversarial Networks for Hard Negative Mining in CNN-Based SAR-Optical Image Matching. , 2018, , .		3
123	The SARoptical Dataset for Joint Analysis of SAR and Optical Image in Dense Urban Area. , 2018, , .		16
124	Feature Importance Analysis of Sentinel-2 Imagery for Large-Scale Urban Local Climate Zone Classification. , 2018, , .		4
125	A framework for SAR-optical stereogrammetry over urban areas. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 389-408.	11.1	26
126	Classification of Settlement Types from Tweets Using LDA and LSTM. , 2018, , .		12

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127	Hierarchical Region Based Convolution Neural Network for Multiscale Object Detection in Remote Sensing Images. , 2018, , .		13
128	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
129	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
130	Multi-Pass SAR Interferometry for 3D Reconstruction of Complex Mountainous Areas Based on Robust Low Rank Tensor Decomposition. , 2018, , .		1
131	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
132	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
133	Mining Hard Negative Samples for SAR-Optical Image Matching Using Generative Adversarial Networks. Remote Sensing, 2018, 10, 1552.	4.0	44
134	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
135	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
136	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
137	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
138	A Review of Ten-Year Advances of Multi-Baseline SAR Interferometry Using TerraSAR-X Data. Remote Sensing, 2018, 10, 1374.	4.0	44
139	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
140	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
141	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
142	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
143	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
144	\$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

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145	Multisensor Coupled Spectral Unmixing for Time-Series Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2842-2857.	6.3	22
146	FusioNet: A two-stream convolutional neural network for urban scene classification using PolSAR and hyperspectral data. , 2017, , .		35
147	Deep Recurrent Neural Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3639-3655.	6.3	937
148	Robust Object-Based Multipass InSAR Deformation Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4239-4251.	6.3	29
149	Building height estimation in single SAR image using OSM building footprints. , 2017, , .		8
150	Earth Observation Using SAR and Social Media Images. , 2017, , .		0
151	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
152	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
153	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
154	Learning a low-coherence dictionary to address spectral variability for hyperspectral unmixing. , 2017, , .		12
155	Identifying corresponding patches in SAR and optical imagery with a convolutional neural network. , 2017, , .		6
156	Fully conv-deconv network for unsupervised spectral-spatial feature extraction of hyperspectral imagery via residual learning. , 2017, , .		10
157	Automatic positioning of SAR ground control points from multi-aspect TerraSAR-X acquisitions. , 2017, , .		1
158	The K-LLE algorithm for nonlinear dimensionality reduction of large-scale hyperspectral data. , 2016, , .		3
159	Data Fusion and Remote Sensing: An ever-growing relationship. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 6-23.	9.6	212
160	SAR ground control point identification with the aid of high resolution optical data. , 2016, , .		3
161	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
162	Hyperspectral Data Classification Using Extended Extinction Profiles. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1641-1645.	3.1	61

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163	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
164	Spatiotemporal scene interpretation of space videos via deep neural network and tracklet analysis. , 2016, , .		35
165	CFAR detection for the complex approximated message passing reconstructed SAR image. , 2016, , .		0
166	Object-based InSAR deformation reconstruction with application to bridge monitoring. , 2016, , .		6
167	Extinction Profiles for the Classification of Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5631-5645.	6.3	122
168	Local manifold learning with robust neighbors selection for hyperspectral dimensionality reduction. , 2016, , .		10
169	Forest remote sensing on the individual tree level by airborne millimeterwave SAR. , 2016, , .		2
170	GPU-based nonlocal filtering for large scale SAR processing. , 2016, , .		4
171	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
172	Demonstration of Single-Pass Millimeterwave SAR Tomography for Forest Volumes. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 202-206.	3.1	12
173	Robust Estimators for Multipass SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 968-980.	6.3	59
174	Exploiting Joint Sparsity for Pansharpening: The J-SparseFI Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2664-2681.	6.3	105
175	Geodetic SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 18-35.	6.3	65
176	Exploiting sparsity in remote sensing and earth observation: Theory, applications and future trends. , 2015, , .		1
177	Compressive sensing for neutrospheric water vapor tomography using GNSS and InSAR observations. , 2015, , .		10
178	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
179	Exploiting group sparsity in SAR tomography. , 2015, , .		0
180	Sparse reconstruction automaton for synthetic aperture radar tomography. , 2015, , .		0

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