Jun Shi

List of Publications by Year
in descending order

113 papers	2,152 citations
279487 23 h-index	253896 43 g-index
113 all docs	113 docs citations
113 times ranked	878 citing authors

#	Article	IF	Citations
1	HRSID: A High-Resolution SAR Images Dataset for Ship Detection and Instance Segmentation. IEEE Access, 2020, 8, 120234-120254.	2.6	299
2	SAR Ship Detection Dataset (SSDD): Official Release and Comprehensive Data Analysis. Remote Sensing, 2021, 13, 3690.	1.8	183
3	LS-SSDD-v1.0: A Deep Learning Dataset Dedicated to Small Ship Detection from Large-Scale Sentinel-1 SAR Images. Remote Sensing, 2020, 12, 2997.	1.8	140
4	Depthwise Separable Convolution Neural Network for High-Speed SAR Ship Detection. Remote Sensing, 2019, 11, 2483.	1.8	132
5	HyperLi-Net: A hyper-light deep learning network for high-accurate and high-speed ship detection from synthetic aperture radar imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 123-153.	4.9	106
6	Precise and Robust Ship Detection for High-Resolution SAR Imagery Based on HR-SDNet. Remote Sensing, 2020, 12, 167.	1.8	97
7	LINEAR ARRAY SAR IMAGING VIA COMPRESSED SENSING. Progress in Electromagnetics Research, 2011, 117, 299-319.	1.6	74
8	Balance learning for ship detection from synthetic aperture radar remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 182, 190-207.	4.9	73
9	HOG-ShipCLSNet: A Novel Deep Learning Network With HOG Feature Fusion for SAR Ship Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-22.	2.7	64
10	HQ-ISNet: High-Quality Instance Segmentation for Remote Sensing Imagery. Remote Sensing, 2020, 12, 989.	1.8	62
11	Semisupervised Learning-Based SAR ATR via Self-Consistent Augmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4862-4873.	2.7	53
12	Object Detection and Instance Segmentation in Remote Sensing Imagery Based on Precise Mask R-CNN. , 2019, , .		49
13	SPARSE ARRAY MICROWAVE 3-D IMAGING: COMPRESSED SENSING RECOVERY AND EXPERIMENTAL STUDY. Progress in Electromagnetics Research, 2013, 135, 161-181.	1.6	40
14	Balance Scene Learning Mechanism for Offshore and Inshore Ship Detection in SAR Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	38
15	Self-Attention Bi-LSTM Networks for Radar Signal Modulation Recognition. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5160-5172.	2.9	33
16	AF-AMPNet: A Deep Learning Approach for Sparse Aperture ISAR Imaging and Autofocusing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	30
17	CSR-Net: A Novel Complex-Valued Network for Fast and Precise 3-D Microwave Sparse Reconstruction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4476-4492.	2.3	29
18	RMIST-Net: Joint Range Migration and Sparse Reconstruction Network for 3-D mmW Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	28

#	ARTICLE	IF	CITATIONS
19	TPSSI-Net: Fast and Enhanced Two-Path Iterative Network for 3D SAR Sparse Imaging. IEEE Transactions on Image Processing, 2021, 30, 7317-7332.	6.0	28
20	PRI Modulation Recognition Based on Squeeze-and-Excitation Networks. IEEE Communications Letters, 2020, 24, 1047-1051.	2.5	27
21	Geospatial Object Detection via Deconvolutional Region Proposal Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3014-3027.	2.3	26
22	Ground Moving Target Tracking and Refocusing Using Shadow in Video-SAR. Remote Sensing, 2020, 12, 3083.	1.8	26
23	3DRIED: A High-Resolution 3-D Millimeter-Wave Radar Dataset Dedicated to Imaging and Evaluation. Remote Sensing, 2021, 13, 3366.	1.8	24
24	A Lightweight Adaptive RoI Extraction Network for Precise Aerial Image Instance Segmentation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-17.	2.4	24
25	High-Speed Ship Detection in SAR Images by Improved Yolov3. , 2019, , .		22
26	Plane-Wave Synthesis and RCS Extraction via 3-D Linear Array SAR. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 994-997.	2.4	21
27	CIST: An Improved ISAR Imaging Method Using Convolution Neural Network. Remote Sensing, 2020, 12, 2641.	1.8	21
28	Concealed Object Detection for Millimeter-Wave Images With Normalized Accumulation Map. IEEE Sensors Journal, 2021, 21, 6468-6475.	2.4	19
29	Deep Multi-Scale Recurrent Network for Synthetic Aperture Radar Images Despeckling. Remote Sensing, 2019, 11, 2462.	1.8	18
30	Automatic Modulation Recognition for Radar Signals via Multi-Branch ACSE Networks. IEEE Access, 2020, 8, 94923-94935.	2.6	17
31	Balanced Feature Pyramid Network for Ship Detection in Synthetic Aperture Radar Images. , 2020, , .		17
32	A Phase Filtering Method with Scale Recurrent Networks for InSAR. Remote Sensing, 2020, 12, 3453.	1.8	15
33	Lightweight FISTA-Inspired Sparse Reconstruction Network for mmW 3-D Holography. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	2.7	14
34	SAR Ship Detection Based on an Improved Faster R-CNN Using Deformable Convolution. , 2021, , .		14
35	CPISNet: Delving into Consistent Proposals of Instance Segmentation Network for High-Resolution Aerial Images. Remote Sensing, 2021, 13, 2788.	1.8	13
36	An RCS Measurement Method Using Sparse Imaging Based 3-D SAR Complex Image. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 24-28.	2.4	12

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37	Efficient Instance Segmentation Paradigm for Interpreting SAR and Optical Images. Remote Sensing, 2022, 14, 531.	1.8	12
38	Fast Bayesian Compressed Sensing Algorithm via Relevance Vector Machine for LASAR 3D Imaging. Remote Sensing, 2021, 13, 1751.	1.8	10
39	Nonline-of-Sight 3-D Imaging Using Millimeter-Wave Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	10
40	Efficient ADMM Framework Based on Functional Measurement Model for mmW 3-D SAR Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	10
41	Ground Moving Target 2-D Velocity Estimation and Refocusing for Multichannel Maneuvering SAR with Fixed Acceleration. Sensors, 2019, 19, 3695.	2.1	9
42	A Fast Sparse Recovery Algorithm via Resolution Approximation for LASAR 3D Imaging. IEEE Access, 2019, 7, 178710-178725.	2.6	9
43	On-Board Ship Detection in SAR Images Based on L-YOLO. , 2022, , .		9
44	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. Remote Sensing Letters, 2017, 8, 743-751.	0.6	8
45	Rotational Objects Recognition and Angle Estimation via Kernel-Mapping CNN. IEEE Access, 2019, 7, 116505-116518.	2.6	8
46	A Semi-Supervised Sar Ship Detection Framework Via Label Propagation and Consistent Augmentation. , 2021, , .		8
47	LFG-Net: Low-Level Feature Guided Network for Precise Ship Instance Segmentation in SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	8
48	Three Dimensional Image-Based Radar Cross Section Extrapolation via Planar Projective Transforms. IEEE Access, 2019, 7, 138990-139000.	2.6	7
49	SAR Ground Moving Target Refocusing by Combining mReÂ³ Network and TVÎ²-LSTM. IEEE Transactions on Geoscience and Remote Sensing, 2021, , 1-14.	2.7	7
50	A Novel Guided Anchor Siamese Network for Arbitrary Target-of-Interest Tracking in Video-SAR. Remote Sensing, 2021, 13, 4504.	1.8	7
51	Fast Multi-Shadow Tracking for Video-SAR Using Triplet Attention Mechanism. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	7
52	A novel synthetic bandwidth method based on BP imaging for stepped-frequency SAR. Remote Sensing Letters, 2016, 7, 741-750.	0.6	6
53	Ground slowly moving target detection and velocity estimation via high-speed platform dual-beam synthetic aperture radar. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	6
54	IRNet: Interference Recognition Networks for Automotive Radars via Autocorrelation Features. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2762-2774.	2.9	6

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55	Nonlocal Feature Selection Encoder–Decoder Network for Accurate InSAR Phase Filtering. Remote Sensing, 2022, 14, 1174.	1.8	6
56	Airborne 3-D forward looking SAR imaging via chirp scaling algorithm. , 2011, , .		5
57	Three GPU-Based Parallel Schemes for SAR Back Projection Imaging Algorithm. , 2014, , .		5
58	Image reconstruction method for stepped-frequency multichannel bistatic SAR. Remote Sensing Letters, 2017, 8, 48-57.	0.6	5
59	Ship Detection Based on RetinaNet-Plus for High-Resolution SAR Imagery. , 2019, , .		5
60	Unambiguous Reconstruction for Multichannel Nonuniform Sampling SAR Signal Based on Image Fusion. IEEE Access, 2020, 8, 71558-71571.	2.6	5
61	Label Noise Modeling and Correction via Loss Curve Fitting for SAR ATR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	5
62	High‐resolution synthetic aperture radar based on the IEEE 802.11 protocol. Electronics Letters, 2015, 51, 1815-1817.	0.5	4
63	Multi-target positioning for passive sensor network via bistatic range space projection. Science China Information Sciences, 2016, 59, 1-3.	2.7	4
64	Region adaptive morphological reconstruction fuzzy C-means for near-field 3-D SAR image target extraction. , 2021, 113, 103036.		4
65	A Novel Sub-Image Local Area Minimum Entropy Reconstruction Method for HRWS SAR Adaptive Unambiguous Imaging. Remote Sensing, 2021, 13, 3115.	1.8	4
66	Video SAR Ground Moving Target Indication Based on Multi-Target Tracking Neural Network. , 2021, , .		4
67	Contextual Squeeze-and-Excitation Mask R-CNN for SAR Ship Instance Segmentation. , 2022, , .		4
68	3-D SAR Data-Driven Imaging via Learned Low-Rank and Sparse Priors. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	4
69	Learning-Based Split Unfolding Framework for 3-D mmW Radar Sparse Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	4
70	High-Speed Aircraft Single Channel SAR-GMTI Based on Neural Network. , 2019, , .		3
71	3D SAR Image Background Separation Based on Seeded Region Growing. IEEE Access, 2019, 7, 179842-179863.	2.6	3
72	Sparse Bayesian 3-D Imaging for Low-RCS Objects via Dyadic Green's Function. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1537-1541.	2.4	3

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73	Sparsity-Driven ISAR Imaging via Hierarchical Channel-Mixed Framework. IEEE Sensors Journal, 2021, 21, 19222-19235.	2.4	3
74	Non-Line-Of-Sight Imaging by Millimeter Wave Radar. , 2021, , .		3
75	Shipdenet-18: An Only 1 Mb With Only 18 Convolution Layers Light-Weight Deep Learning Network For Sar Ship Detection. , 2020, , .		3
76	Comparison of MF and CS Algorithm in 3-D Near-Field SAR Imaging. , 2021, , .		3
77	Concept on airship-borned linear array 3-D imaging SAR. , 2011, , .		2
78	SAR Images Enhancement Via Deep Multi-Scale Encoder-Decoder Neural Network. , 2019, , .		2
79	Multi-Baseline Synthetic Aperture Radar 3-D Imaging via the Same Spatial Surface Projection. , 2019, , .		2
80	A HOG Feature Fusion Method to Improve CNN-Based SAR Ship Classification Accuracy. , 2021, , .		2
81	A Flexible Region of Interest Extraction Algorithm with Adaptive Threshold for 3-D Synthetic Aperture Radar Images. Remote Sensing, 2021, 13, 4308.	1.8	2
82	Precise RCS Extrapolation via Nearfield 3-D Imaging With Adaptive Parameter Optimization Bayesian Learning. IEEE Transactions on Antennas and Propagation, 2022, 70, 3656-3671.	3.1	2
83	A Novel Ground Moving Target Radial Velocity Estimation Method for Dual-Beam Along-Track Interferometric Sar. , 2020, , .		2
84	Semi-Supervised Learning-Based Remote Sensing Image Scene Classification Via Adaptive Perturbation Training. , 2020, , .		2
85	A High-Precision Motion Errors Compensation Method Based on Sub-Image Reconstruction for HRWS SAR Imaging. Remote Sensing, 2022, 14, 1033.	1.8	2
86	A sub-aperture and blocking autofocus backprojection method for SAR. , 2015, , .		1
87	Range direction focusing method based on single-snap MUSIC for SAR imaging. , 2018, , .		1
88	An Autofocus Method for SAR Frequency-Domain Backprojection Imaging. , 2019, , .		1
89	Sa-Bilasar Down-Looking 3-D Imaging Based on Sparse Bayesian Reconstruction. , 2019, , .		1
90	Precise Autofocus for SAR Imaging Based on Joint Multi-Region Optimization. , 2019, , .		1

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91	A Deep Unsupervised Learning Method for SAR Object Classification. , 2019, , .		1
92	Complex Background SAR Target Recognition Based on Convolution Neural Network. , 2019, , .		1
93	A joint sparse recovery algorithm for coprime adjacent array synthetic aperture radar 3D sparse imaging. International Journal of Remote Sensing, 2021, 42, 6556-6576.	1.3	1
94	Target scattering coefficient measurement system and method. , 2020, , .		1
95	ISAR Compressive Sensing Imaging Using Convolution Neural Network with Interpretable Optimization. , 2020, , .		1
96	A third order range model for high speed and high maneuvering SAR using Chebyshev approximation. , 2013, , .		0
97	A novel antenna phase center estimation method for synthetic aperture radar. , 2015, , .		0
98	A novel initial altitude error estimation method base on autofocus for high-speed diving SAR. , 2017, , .		0
99	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. , 2017, , .		0
100	Elimination of Multi-Bounce Effect for Outdoor RCS Measurement via 3D Imaging. , 2018, , .		0
101	A fast compressed sensing algorithm via the Otsu algorithm for LASAR 3D sparse imaging. , 2019, , .		0
102	Tree Parameters Extraction VIA Ground-based Linear Array SAR 3-D Imaging. , 2019, , .		0
103	Maximum Sharpness Based FISTA For SA-BiLASAR 3-D Sparse Autofocus Imaging. , 2019, , .		0
104	Adaptive Filtering for 3D SAR Data based on Dynamic Gaussian Threshold. , 2019, , .		0
105	Ground Moving Target Azimuth Velocity Estimation Based on Dual-Beam Along-Track Interferometric SAR. , 2019, , .		0
106	Binary Clustering for Deep Network Trained by Feature Growth. IEEE Access, 2021, 9, 8354-8366.	2.6	0
107	A refocusing iterative optimization method based on the quad-beam mode for accurate estimation of the azimuth velocity of slow-moving targets using SAR. Remote Sensing Letters, 2021, 12, 1100-1111.	0.6	0
108	SAR Target Recognition and Angle Estimation by Using Rotation-Mapping Network. , 2021, , .		0

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109	Linear Array 3-D SAR Sparse Imaging via Convolutional Neural Network. , 2020, , .		0
110	Kernel Rotational Network for Synthetic Aperture Radar Target Recognition. , 2020, , .		0
111	Non-Line-Of-Sight Radar 3-D Imaging via Sparse Reconstruction. , 2021, , .		0
112	Joint Matched Filtering and Iterative Optimization Network for 3-D mmW Imaging. , 2021, , .		0
113	Efficient Instance Segmentation Method For High-Resolution SAR Imagery. , 2021, , .		0