Shunjun Wei

List of Publications by Year
in descending order

112 papers	2,147 citations	279798 23 h-index	254184 43 g-index
112 all docs	112 docs citations	112 times ranked	855 citing authors

#	Article	IF	Citations
1	Balance Scene Learning Mechanism for Offshore and Inshore Ship Detection in SAR Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	38
2	AF-AMPNet: A Deep Learning Approach for Sparse Aperture ISAR Imaging and Autofocusing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	30
3	Lightweight FISTA-Inspired Sparse Reconstruction Network for mmW 3-D Holography. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	6.3	14
4	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.	6.3	64
5	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.	6.3	28
6	An RCS Measurement Method Using Sparse Imaging Based 3-D SAR Complex Image. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 24-28.	4.0	12
7	Nonline-of-Sight 3-D Imaging Using Millimeter-Wave Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	10
8	Label Noise Modeling and Correction via Loss Curve Fitting for SAR ATR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	5
9	Precise RCS Extrapolation via Nearfield 3-D Imaging With Adaptive Parameter Optimization Bayesian Learning. IEEE Transactions on Antennas and Propagation, 2022, 70, 3656-3671.	5.1	2
10	Efficient Instance Segmentation Paradigm for Interpreting SAR and Optical Images. Remote Sensing, 2022, 14, 531.	4.0	12
11	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.	6.3	10
12	Fast Multi-Shadow Tracking for Video-SAR Using Triplet Attention Mechanism. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	7
13	IRNet: Interference Recognition Networks for Automotive Radars via Autocorrelation Features. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2762-2774.	4.6	6
14	Nonlocal Feature Selection Encoderâ€“Decoder Network for Accurate InSAR Phase Filtering. Remote Sensing, 2022, 14, 1174.	4.0	6
15	A High-Precision Motion Errors Compensation Method Based on Sub-Image Reconstruction for HRWS SAR Imaging. Remote Sensing, 2022, 14, 1033.	4.0	2
16	On-Board Ship Detection in SAR Images Based on L-YOLO. , 2022, , .		9
17	3-D SAR Data-Driven Imaging via Learned Low-Rank and Sparse Priors. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	4
18	A Sparse-Model-Driven Network for Efficient and High-Accuracy InSAR Phase Filtering. Remote Sensing, 2022, 14, 2614.	4.0	1

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19	Learning-Based Split Unfolding Framework for 3-D mmW Radar Sparse Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	4
20	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.	6.3	8
21	Semisupervised Learning-Based SAR ATR via Self-Consistent Augmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4862-4873.	6.3	53
22	Self-Attention Bi-LSTM Networks for Radar Signal Modulation Recognition. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5160-5172.	4.6	33
23	SAR Ground Moving Target Refocusing by Combining mReÂ³ Network and TVÎ²-LSTM. IEEE Transactions on Geoscience and Remote Sensing, 2021, , 1-14.	6.3	7
24	Binary Clustering for Deep Network Trained by Feature Growth. IEEE Access, 2021, 9, 8354-8366.	4.2	0
25	Fast Bayesian Compressed Sensing Algorithm via Relevance Vector Machine for LASAR 3D Imaging. Remote Sensing, 2021, 13, 1751.	4.0	10
26	A joint sparse recovery algorithm for coprime adjacent array synthetic aperture radar 3D sparse imaging. International Journal of Remote Sensing, 2021, 42, 6556-6576.	2.9	1
27	Region adaptive morphological reconstruction fuzzy C-means for near-field 3-D SAR image target extraction. , 2021, 113, 103036.		4
28	CPISNet: Delving into Consistent Proposals of Instance Segmentation Network for High-Resolution Aerial Images. Remote Sensing, 2021, 13, 2788.	4.0	13
29	3DRIED: A High-Resolution 3-D Millimeter-Wave Radar Dataset Dedicated to Imaging and Evaluation. Remote Sensing, 2021, 13, 3366.	4.0	24
30	Sparse Bayesian 3-D Imaging for Low-RCS Objects via Dyadic Green's Function. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1537-1541.	4.0	3
31	A Novel Sub-Image Local Area Minimum Entropy Reconstruction Method for HRWS SAR Adaptive Unambiguous Imaging. Remote Sensing, 2021, 13, 3115.	4.0	4
32	Sparsity-Driven ISAR Imaging via Hierarchical Channel-Mixed Framework. IEEE Sensors Journal, 2021, 21, 19222-19235.	4.7	3
33	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.	1.4	0
34	SAR Ship Detection Dataset (SSDD): Official Release and Comprehensive Data Analysis. Remote Sensing, 2021, 13, 3690.	4.0	183
35	TPSSI-Net: Fast and Enhanced Two-Path Iterative Network for 3D SAR Sparse Imaging. IEEE Transactions on Image Processing, 2021, 30, 7317-7332.	9.8	28
36	A Lightweight Adaptive RoI Extraction Network for Precise Aerial Image Instance Segmentation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-17.	4.7	24

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37	Non-Line-Of-Sight Imaging by Millimeter Wave Radar. , 2021, , .		3
38	TomoSAR Sparse 3-D Imaging Via DEM-Aided Surface Projection. , 2021, , .		1
39	Robust and Efficient ISAR Autofocusing Based on Deep Convolution Network. , 2021, , .		1
40	SAR Target Recognition and Angle Estimation by Using Rotation-Mapping Network. , 2021, , .		0
41	A HOG Feature Fusion Method to Improve CNN-Based SAR Ship Classification Accuracy. , 2021, , .		2
42	SAR Ship Detection Based on an Improved Faster R-CNN Using Deformable Convolution. , 2021, , .		14
43	A Flexible Region of Interest Extraction Algorithm with Adaptive Threshold for 3-D Synthetic Aperture Radar Images. Remote Sensing, 2021, 13, 4308.	4.0	2
44	Balance learning for ship detection from synthetic aperture radar remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 182, 190-207.	11.1	73
45	A Robust InSAR Phase Unwrapping Method via Phase Gradient Estimation Network. Remote Sensing, 2021, 13, 4564.	4.0	13
46	A Novel Guided Anchor Siamese Network for Arbitrary Target-of-Interest Tracking in Video-SAR. Remote Sensing, 2021, 13, 4504.	4.0	7
47	Non-Line-Of-Sight Radar 3-D Imaging via Sparse Reconstruction. , 2021, , .		0
48	Joint Matched Filtering and Iterative Optimization Network for 3-D mmW Imaging. , 2021, , .		0
49	Efficient Instance Segmentation Method For High-Resolution SAR Imagery. , 2021, , .		0
50	Comparison of MF and CS Algorithm in 3-D Near-Field SAR Imaging. , 2021, , .		3
51	Ground Moving Target Tracking and Refocusing Using Shadow in Video-SAR. Remote Sensing, 2020, 12, 3083.	4.0	26
52	Unambiguous Reconstruction for Multichannel Nonuniform Sampling SAR Signal Based on Image Fusion. IEEE Access, 2020, 8, 71558-71571.	4.2	5
53	Automatic Modulation Recognition for Radar Signals via Multi-Branch ACSE Networks. IEEE Access, 2020, 8, 94923-94935.	4.2	17
54	JRNet: Jamming Recognition Networks for Radar Compound Suppression Jamming Signals. IEEE Transactions on Vehicular Technology, 2020, 69, 15035-15045.	6.3	75

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55	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.	11.1	106
56	HRSID: A High-Resolution SAR Images Dataset for Ship Detection and Instance Segmentation. IEEE Access, 2020, 8, 120234-120254.	4.2	299
57	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.	4.0	140
58	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.	4.9	29
59	CIST: An Improved ISAR Imaging Method Using Convolution Neural Network. Remote Sensing, 2020, 12, 2641.	4.0	21
60	FDBP-InSAR: An Efficient Algorithm for InSAR Imaging via Frequency Domain Back Projection. Remote Sensing, 2020, 12, 3527.	4.0	0
61	A Phase Filtering Method with Scale Recurrent Networks for InSAR. Remote Sensing, 2020, 12, 3453.	4.0	15
62	HQ-ISNet: High-Quality Instance Segmentation for Remote Sensing Imagery. Remote Sensing, 2020, 12, 989.	4.0	62
63	Intraâ€pulse modulation radar signal recognition based on CLDN network. IET Radar, Sonar and Navigation, 2020, 14, 803-810.	1.8	46
64	ACSE Networks and Autocorrelation Features for PRI Modulation Recognition. IEEE Communications Letters, 2020, 24, 1729-1733.	4.1	21
65	Intra-pulse modulation radar signal recognition based on Squeeze-and-Excitation networks. Signal, Image and Video Processing, 2020, 14, 1133-1141.	2.7	11
66	PRI Modulation Recognition Based on Squeeze-and-Excitation Networks. IEEE Communications Letters, 2020, 24, 1047-1051.	4.1	27
67	Precise and Robust Ship Detection for High-Resolution SAR Imagery Based on HR-SDNet. Remote Sensing, 2020, 12, 167.	4.0	97
68	A Novel Ground Moving Target Radial Velocity Estimation Method for Dual-Beam Along-Track Interferometric Sar. , 2020, , .		2
69	Linear Array 3-D SAR Sparse Imaging via Convolutional Neural Network. , 2020, , .		0
70	Balanced Feature Pyramid Network for Ship Detection in Synthetic Aperture Radar Images. , 2020, , .		17
71	Shipdenet-18: An Only 1 Mb With Only 18 Convolution Layers Light-Weight Deep Learning Network For Sar Ship Detection. , 2020, , .		3
72	Semi-Supervised Learning-Based Remote Sensing Image Scene Classification Via Adaptive Perturbation Training. , 2020, , .		2

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73	Kernel Rotational Network for Synthetic Aperture Radar Target Recognition. , 2020, , .		0
74	ISAR Compressive Sensing Imaging Using Convolution Neural Network with Interpretable Optimization. , 2020, , .		1
75	An Autofocus Method for SAR Frequency-Domain Backprojection Imaging. , 2019, , .		1
76	Rotational Objects Recognition and Angle Estimation via Kernel-Mapping CNN. IEEE Access, 2019, 7, 116505-116518.	4.2	8
77	Three Dimensional Image-Based Radar Cross Section Extrapolation via Planar Projective Transforms. IEEE Access, 2019, 7, 138990-139000.	4.2	7
78	Ground Moving Target 2-D Velocity Estimation and Refocusing for Multichannel Maneuvering SAR with Fixed Acceleration. Sensors, 2019, 19, 3695.	3.8	9
79	Geospatial Object Detection via Deconvolutional Region Proposal Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3014-3027.	4.9	26
80	Sa-Bilasar Down-Looking 3-D Imaging Based on Sparse Bayesian Reconstruction. , 2019, , .		1
81	Precise Autofocus for SAR Imaging Based on Joint Multi-Region Optimization. , 2019, , .		1
82	Ship Detection Based on RetinaNet-Plus for High-Resolution SAR Imagery. , 2019, , .		5
83	Efficient autofocus of small multiâ€rotor UAV SAR by minimum entropy BP algorithm. Journal of Engineering, 2019, 2019, 7356-7359.	1.1	1
84	A Fast Sparse Recovery Algorithm via Resolution Approximation for LASAR 3D Imaging. IEEE Access, 2019, 7, 178710-178725.	4.2	9
85	A fast compressed sensing algorithm via the Otsu algorithm for LASAR 3D sparse imaging. , 2019, , .		0
86	Tree Parameters Extraction VIA Ground-based Linear Array SAR 3-D Imaging. , 2019, , .		0
87	Maximum Sharpness Based FISTA For SA-BiLASAR 3-D Sparse Autofocus Imaging. , 2019, , .		0
88	Accurate Object Detection Based on Faster R-CNN in Remote Sensing Imagery. , 2019, , .		1
89	Adaptive Filtering for 3D SAR Data based on Dynamic Gaussian Threshold. , 2019, , .		0
90	Multi-Baseline Synthetic Aperture Radar 3-D Imaging via the Same Spatial Surface Projection. , 2019, , .		2

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91	Ground Moving Target Azimuth Velocity Estimation Based on Dual-Beam Along-Track Interferometric SAR. , 2019, , .		0
92	High-Speed Ship Detection in SAR Images by Improved Yolov3. , 2019, , .		22
93	High-Speed Aircraft Single Channel SAR-GMTI Based on Neural Network. , 2019, , .		3
94	3D SAR Image Background Separation Based on Seeded Region Growing. IEEE Access, 2019, 7, 179842-179863.	4.2	3
95	Depthwise Separable Convolution Neural Network for High-Speed SAR Ship Detection. Remote Sensing, 2019, 11, 2483.	4.0	132
96	Object Detection and Instance Segmentation in Remote Sensing Imagery Based on Precise Mask R-CNN. , 2019, , .		49
97	Deep Multi-Scale Recurrent Network for Synthetic Aperture Radar Images Despeckling. Remote Sensing, 2019, 11, 2462.	4.0	18
98	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.	1.3	6
99	SAR 3D sparse imaging based on CLA. Journal of Engineering, 2019, 2019, 5543-5547.	1.1	1
100	Elimination of Multi-Bounce Effect for Outdoor RCS Measurement via 3D Imaging. , 2018, , .		0
101	A fast three-dimensional frequency-domain back projection imaging algorithm based on GPU. , 2018, , .		2
102	Fast back-projection autofocus for linear array SAR 3-D imaging via maximum sharpness. , 2018, , .		9
103	Range direction focusing method based on single-snap MUSIC for SAR imaging. , 2018, , .		1
104	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. Remote Sensing Letters, 2017, 8, 743-751.	1.4	8
105	A novel initial altitude error estimation method base on autofocus for high-speed diving SAR. , 2017, , .		0
106	Image reconstruction method for stepped-frequency multichannel bistatic SAR. Remote Sensing Letters, 2017, 8, 48-57.	1.4	5
107	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. , 2017, , .		0
108	A novel synthetic bandwidth method based on BP imaging for stepped-frequency SAR. Remote Sensing Letters, 2016, 7, 741-750.	1.4	6

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109	A novel antenna phase center estimation method for synthetic aperture radar. , 2015, , .		0
110	A sub-aperture and blocking autofocus backprojection method for SAR. , 2015, , .		1
111	Three GPU-Based Parallel Schemes for SAR Back Projection Imaging Algorithm. , 2014, , .		5
112	Resolution enhancement of SAR image using the modified IBP method. , 2010, , .		2