Liming Zhou

List of Publications by Year
in descending order

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130 papers	1,639 citations	393982 19 h-index	329751 37 g-index
130 all docs	130 docs citations	130 times ranked	739 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	Nonline-of-Sight 3-D Imaging Using Millimeter-Wave Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	10
6	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
7	Squeeze-and-Excitation Laplacian Pyramid Network With Dual-Polarization Feature Fusion for Ship Classification in SAR Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	32
8	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
9	Three-Dimensional Sparse SAR Imaging with Generalized Lq Regularization. Remote Sensing, 2022, 14, 288.	1.8	6
10	Efficient Instance Segmentation Paradigm for Interpreting SAR and Optical Images. Remote Sensing, 2022, 14, 531.	1.8	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.	2.7	10
12	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
13	Nonlocal Feature Selection Encoderâ€“Decoder Network for Accurate InSAR Phase Filtering. Remote Sensing, 2022, 14, 1174.	1.8	6
14	A High-Precision Motion Errors Compensation Method Based on Sub-Image Reconstruction for HRWS SAR Imaging. Remote Sensing, 2022, 14, 1033.	1.8	2
15	Contextual Squeeze-and-Excitation Mask R-CNN for SAR Ship Instance Segmentation. , 2022, , .		4
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.	2.7	4
18	A Sparse-Model-Driven Network for Efficient and High-Accuracy InSAR Phase Filtering. Remote Sensing, 2022, 14, 2614.	1.8	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.	2.7	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.	2.7	8
21	A Mask Attention Interaction and Scale Enhancement Network for SAR Ship Instance Segmentation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	19
22	ShipDeNet-20: An Only 20 Convolution Layers and <1-MB Lightweight SAR Ship Detector. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1234-1238.	1.4	75
23	Semisupervised Learning-Based SAR ATR via Self-Consistent Augmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4862-4873.	2.7	53
24	Self-Attention Bi-LSTM Networks for Radar Signal Modulation Recognition. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5160-5172.	2.9	33
25	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
26	Binary Clustering for Deep Network Trained by Feature Growth. IEEE Access, 2021, 9, 8354-8366.	2.6	0
27	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
28	Region adaptive morphological reconstruction fuzzy C-means for near-field 3-D SAR image target extraction. , 2021, 113, 103036.		4
29	CPISNet: Delving into Consistent Proposals of Instance Segmentation Network for High-Resolution Aerial Images. Remote Sensing, 2021, 13, 2788.	1.8	13
30	3DRIED: A High-Resolution 3-D Millimeter-Wave Radar Dataset Dedicated to Imaging and Evaluation. Remote Sensing, 2021, 13, 3366.	1.8	24
31	A Novel Sub-Image Local Area Minimum Entropy Reconstruction Method for HRWS SAR Adaptive Unambiguous Imaging. Remote Sensing, 2021, 13, 3115.	1.8	4
32	Sparsity-Driven ISAR Imaging via Hierarchical Channel-Mixed Framework. IEEE Sensors Journal, 2021, 21, 19222-19235.	2.4	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.	0.6	0
34	SAR Ship Detection Dataset (SSDD): Official Release and Comprehensive Data Analysis. Remote Sensing, 2021, 13, 3690.	1.8	183
35	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
36	Non-Line-Of-Sight Imaging by Millimeter Wave Radar. , 2021, , .		3

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37	Multiple-Overlaid-Targets Separation and High Precision Velocity Estimation Based on Bayesian Criterion in VSAR System. , 2021, , .		1
38	TomoSAR Sparse 3-D Imaging Via DEM-Aided Surface Projection. , 2021, , .		1
39	Video SAR Ground Moving Target Indication Based on Multi-Target Tracking Neural Network. , 2021, , .		4
40	Robust and Efficient ISAR Autofocusing Based on Deep Convolution Network. , 2021, , .		1
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	Enhanced Deep Convolutional Neural Network for Building Component Detection Towards Structural Health Monitoring. , 2021, , .		2
44	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
45	Non-Line-Of-Sight Radar 3-D Imaging via Sparse Reconstruction. , 2021, , .		0
46	Integrate Traditional Hand-Crafted Features into Modern CNN-based Models to Further Improve SAR Ship Classification Accuracy. , 2021, , .		6
47	Joint Matched Filtering and Iterative Optimization Network for 3-D mmW Imaging. , 2021, , .		0
48	Efficient Instance Segmentation Method For High-Resolution SAR Imagery. , 2021, , .		0
49	Comparison of MF and CS Algorithm in 3-D Near-Field SAR Imaging. , 2021, , .		3
50	Investigating Vision Transformer Models for Low-Resolution Medical Image Recognition. , 2021, , .		2
51	On Salient Concrete Crack Detection Via Improved Yolov5. , 2021, , .		3
52	Akan-English: Transformer for Low Resource Translation. , 2021, , .		0
53	Accelerating Classification on Resource-Constrained Edge Nodes Towards Automated Structural Health Monitoring. , 2021, , .		1
54	Ground Moving Target Tracking and Refocusing Using Shadow in Video-SAR. Remote Sensing, 2020, 12, 3083.	1.8	26

#	Article	IF	Citations
55	Unambiguous Reconstruction for Multichannel Nonuniform Sampling SAR Signal Based on Image Fusion. IEEE Access, 2020, 8, 71558-71571.	2.6	5
56	SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	5
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.	1.8	140
58	CIST: An Improved ISAR Imaging Method Using Convolution Neural Network. Remote Sensing, 2020, 12, 2641.	1.8	21
59	FDBP-InSAR: An Efficient Algorithm for InSAR Imaging via Frequency Domain Back Projection. Remote Sensing, 2020, 12, 3527.	1.8	0
60	A Phase Filtering Method with Scale Recurrent Networks for InSAR. Remote Sensing, 2020, 12, 3453.	1.8	15
61	HQ-ISNet: High-Quality Instance Segmentation for Remote Sensing Imagery. Remote Sensing, 2020, 12, 989.	1.8	62
62	Precise and Robust Ship Detection for High-Resolution SAR Imagery Based on HR-SDNet. Remote Sensing, 2020, 12, 167.	1.8	97
63	Target scattering coefficient measurement system and method. , 2020, , .		1
64	A Novel Ground Moving Target Radial Velocity Estimation Method for Dual-Beam Along-Track Interferometric Sar. , 2020, , .		2
65	Balanced Feature Pyramid Network for Ship Detection in Synthetic Aperture Radar Images. , 2020, , .		17
66	Shipdenet-18: An Only 1 Mb With Only 18 Convolution Layers Light-Weight Deep Learning Network For Sar Ship Detection. , 2020, , .		3
67	Semi-Supervised Learning-Based Remote Sensing Image Scene Classification Via Adaptive Perturbation Training. , 2020, , .		2
68	ISAR Compressive Sensing Imaging Using Convolution Neural Network with Interpretable Optimization. , 2020, , .		1
69	Network Cost Based Node Selection Strategy for Multiple Target Tracking in Netted Radar System. , 2019, , .		6
70	A RadCom System with Flexible Array Controls. , 2019, , .		1
71	An Autofocus Method for SAR Frequency-Domain Backprojection Imaging. , 2019, , .		1
72	Ground Moving Target 2-D Velocity Estimation and Refocusing for Multichannel Maneuvering SAR with Fixed Acceleration. Sensors, 2019, 19, 3695.	2.1	9

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73	High-Speed Ship Detection in SAR Images Based on a Grid Convolutional Neural Network. Remote Sensing, 2019, 11, 1206.	1.8	134
74	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
75	Multi-Twin-SSB Modulation with Direct Detection Based on Kramersâ€“Kronig Scheme for Long-Reach PON Downstream. Applied Sciences (Switzerland), 2019, 9, 748.	1.3	3
76	Research on Waveform Design and Imaging of MIMO-SAR. , 2019, , .		0
77	Precise Autofocus for SAR Imaging Based on Joint Multi-Region Optimization. , 2019, , .		1
78	A Fast Sparse Recovery Algorithm via Resolution Approximation for LASAR 3D Imaging. IEEE Access, 2019, 7, 178710-178725.	2.6	9
79	A fast compressed sensing algorithm via the Otsu algorithm for LASAR 3D sparse imaging. , 2019, , .		0
80	Tree Parameters Extraction VIA Ground-based Linear Array SAR 3-D Imaging. , 2019, , .		0
81	Accurate Object Detection Based on Faster R-CNN in Remote Sensing Imagery. , 2019, , .		1
82	Adaptive Filtering for 3D SAR Data based on Dynamic Gaussian Threshold. , 2019, , .		0
83	Multi-Baseline Synthetic Aperture Radar 3-D Imaging via the Same Spatial Surface Projection. , 2019, , .		2
84	Ground Moving Target Azimuth Velocity Estimation Based on Dual-Beam Along-Track Interferometric SAR. , 2019, , .		0
85	SAR-GMTI for Slow Moving Target Based on Neural Network. , 2019, , .		2
86	Ship Detection Based on Faster R-CNN in SAR Imagery by Anchor Box Optimization. , 2019, , .		2
87	High-Speed Ship Detection in SAR Images by Improved Yolov3. , 2019, , .		22
88	High-Speed Aircraft Single Channel SAR-GMTI Based on Neural Network. , 2019, , .		3
89	3D SAR Image Background Separation Based on Seeded Region Growing. IEEE Access, 2019, 7, 179842-179863.	2.6	3
90	Depthwise Separable Convolution Neural Network for High-Speed SAR Ship Detection. Remote Sensing, 2019, 11, 2483.	1.8	132

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91	Deep Multi-Scale Recurrent Network for Synthetic Aperture Radar Images Despeckling. Remote Sensing, 2019, 11, 2462.	1.8	18
92	Elimination of Multi-Bounce Effect for Outdoor RCS Measurement via 3D Imaging. , 2018, , .		0
93	A fast three-dimensional frequency-domain back projection imaging algorithm based on GPU. , 2018, , .		2
94	Fast back-projection autofocus for linear array SAR 3-D imaging via maximum sharpness. , 2018, , .		9
95	Range direction focusing method based on single-snap MUSIC for SAR imaging. , 2018, , .		1
96	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. Remote Sensing Letters, 2017, 8, 743-751.	0.6	8
97	A novel initial altitude error estimation method base on autofocus for high-speed diving SAR. , 2017, , .		0
98	Image reconstruction method for stepped-frequency multichannel bistatic SAR. Remote Sensing Letters, 2017, 8, 48-57.	0.6	5
99	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. , 2017, , .		0
100	A multi-frame track-before-detect algorithm for maneuvering targets in radar system. , 2016, , .		10
101	Multi-target positioning for passive sensor network via bistatic range space projection. Science China Information Sciences, 2016, 59, 1-3.	2.7	4
102	Hierarchical and iterative multi-target positioning via imaging strategy. , 2016, , .		1
103	A novel synthetic bandwidth method based on BP imaging for stepped-frequency SAR. Remote Sensing Letters, 2016, 7, 741-750.	0.6	6
104	A novel antenna phase center estimation method for synthetic aperture radar. , 2015, , .		0
105	Highâ€resolution synthetic aperture radar based on the IEEE 802.11 protocol. Electronics Letters, 2015, 51, 1815-1817.	0.5	4
106	A sub-aperture and blocking autofocus backprojection method for SAR. , 2015, , .		1
107	Elevation-Dependent Frequency-Domain Imaging for General Bistatic SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5553-5564.	2.3	2
108	A Less-Memory and High-Efficiency Autofocus Back Projection Algorithm for SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 890-894.	1.4	45

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109	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
110	Tracking targets in G0 clutter via dynamic programming based track-before-detect. , 2015, , .		2
111	Three GPU-Based Parallel Schemes for SAR Back Projection Imaging Algorithm. , 2014, , .		5
112	Efficient Nonuniform Fourier Reconstruction for Spaceborne/Airborne Bistatic SAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 191-195.	1.4	5
113	A simple reference point spectrum model and modified Omega-K imaging algorithm for spaceborne/airborne bistatic SAR. , 2013, , .		1
114	A third order range model for high speed and high maneuvering SAR using Chebyshev approximation. , 2013, , .		0
115	Generalized frequency domain imaging algorithm for arbitrary bisatic SAR. , 2013, , .		0
116	Nonlinear RCMC method for spaceborne/airborne forward-looking bistatic SAR. Journal of Systems Engineering and Electronics, 2012, 23, 201-207.	1.1	3
117	Imaging algorithm based on Least-Square NUFFT method for spaceborne/airborne squint mode bistatic SAR. , 2012, , .		2
118	Range cell migration correction for bistatic SAR image formation. , 2012, , .		2
119	Fusion of Multifocus Images by Combining Edge Maps and the Sum-Modified-Laplacian Technique. , 2011, , .		3
120	Fusion of Multispectral and Panchromatic Images Using IHS Transform and ACE Model. , 2011, , .		0
121	Bistatic SAR image formation algorithm using keystone transform. , 2011, , .		1
122	Concept on airship-borned linear array 3-D imaging SAR. , 2011, , .		2
123	Airborne 3-D forward looking SAR imaging via chirp scaling algorithm. , 2011, , .		5
124	A novel two-dimensional frequency spectrum for bistatic SAR processing. , 2011, , .		0
125	A TBD algorithm based on improved Randomized Hough Transform for dim target detection. , 2010, , .		5
126	Resolution enhancement of SAR image using the modified IBP method. , 2010, , .		2

#	Article	IF	Citations
127	A modified track-before-detect algorithm for radar weak target. , 2010, , .		0
128	A hybird vegetation height inversion method for dual frequency PolInSAR. , 2009, , .		0
129	Study on Spaceborne/Airborne Hybrid Bistatic SAR Image Formation in Frequency Domain. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 578-582.	1.4	13
130	Frequency domain imaging algorithm for spaceborne/airborne hybrid bistatic SAR. , 2007, , .		3