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	SAR Ship Detection Dataset (SSDD): Official Release and Comprehensive Data Analysis. Remote Sensing, 2021, 13, 3690.	1.8	183
2	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
3	High-Speed Ship Detection in SAR Images Based on a Grid Convolutional Neural Network. Remote Sensing, 2019, 11, 1206.	1.8	134
4	Depthwise Separable Convolution Neural Network for High-Speed SAR Ship Detection. Remote Sensing, 2019, 11, 2483.	1.8	132
5	Precise and Robust Ship Detection for High-Resolution SAR Imagery Based on HR-SDNet. Remote Sensing, 2020, 12, 167.	1.8	97
6	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
7	HQ-ISNet: High-Quality Instance Segmentation for Remote Sensing Imagery. Remote Sensing, 2020, 12, 989.	1.8	62
8	Semisupervised Learning-Based SAR ATR via Self-Consistent Augmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4862-4873.	2.7	53
9	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
10	Self-Attention Bi-LSTM Networks for Radar Signal Modulation Recognition. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5160-5172.	2.9	33
11	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
12	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
13	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
14	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
15	Ground Moving Target Tracking and Refocusing Using Shadow in Video-SAR. Remote Sensing, 2020, 12, 3083.	1.8	26
16	3DRIED: A High-Resolution 3-D Millimeter-Wave Radar Dataset Dedicated to Imaging and Evaluation. Remote Sensing, 2021, 13, 3366.	1.8	24
17	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
18	High-Speed Ship Detection in SAR Images by Improved Yolov3. , 2019, , .		22

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19	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
20	CIST: An Improved ISAR Imaging Method Using Convolution Neural Network. Remote Sensing, 2020, 12, 2641.	1.8	21
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	Deep Multi-Scale Recurrent Network for Synthetic Aperture Radar Images Despeckling. Remote Sensing, 2019, 11, 2462.	1.8	18
23	Balanced Feature Pyramid Network for Ship Detection in Synthetic Aperture Radar Images. , 2020, , .		17
24	A Phase Filtering Method with Scale Recurrent Networks for InSAR. Remote Sensing, 2020, 12, 3453.	1.8	15
25	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
26	SAR Ship Detection Based on an Improved Faster R-CNN Using Deformable Convolution. , 2021, , .		14
27	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
28	CPISNet: Delving into Consistent Proposals of Instance Segmentation Network for High-Resolution Aerial Images. Remote Sensing, 2021, 13, 2788.	1.8	13
29	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
30	Efficient Instance Segmentation Paradigm for Interpreting SAR and Optical Images. Remote Sensing, 2022, 14, 531.	1.8	12
31	A multi-frame track-before-detect algorithm for maneuvering targets in radar system. , 2016, , .		10
32	Nonline-of-Sight 3-D Imaging Using Millimeter-Wave Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	10
33	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
34	Fast back-projection autofocus for linear array SAR 3-D imaging via maximum sharpness. , 2018, , .		9
35	Ground Moving Target 2-D Velocity Estimation and Refocusing for Multichannel Maneuvering SAR with Fixed Acceleration. Sensors, 2019, 19, 3695.	2.1	9
36	A Fast Sparse Recovery Algorithm via Resolution Approximation for LASAR 3D Imaging. IEEE Access, 2019, 7, 178710-178725.	2.6	9

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37	On-Board Ship Detection in SAR Images Based on L-YOLO. , 2022, , .		9
38	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. Remote Sensing Letters, 2017, 8, 743-751.	0.6	8
39	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
40	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
41	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
42	A novel synthetic bandwidth method based on BP imaging for stepped-frequency SAR. Remote Sensing Letters, 2016, 7, 741-750.	0.6	6
43	Network Cost Based Node Selection Strategy for Multiple Target Tracking in Netted Radar System. , 2019, , .		6
44	Three-Dimensional Sparse SAR Imaging with Generalized Lq Regularization. Remote Sensing, 2022, 14, 288.	1.8	6
45	Nonlocal Feature Selection Encoderâ€“Decoder Network for Accurate InSAR Phase Filtering. Remote Sensing, 2022, 14, 1174.	1.8	6
46	Integrate Traditional Hand-Crafted Features into Modern CNN-based Models to Further Improve SAR Ship Classification Accuracy. , 2021, , .		6
47	A TBD algorithm based on improved Randomized Hough Transform for dim target detection. , 2010, , .		5
48	Airborne 3-D forward looking SAR imaging via chirp scaling algorithm. , 2011, , .		5
49	Three GPU-Based Parallel Schemes for SAR Back Projection Imaging Algorithm. , 2014, , .		5
50	Efficient Nonuniform Fourier Reconstruction for Spaceborne/Airborne Bistatic SAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 191-195.	1.4	5
51	Image reconstruction method for stepped-frequency multichannel bistatic SAR. Remote Sensing Letters, 2017, 8, 48-57.	0.6	5
52	Unambiguous Reconstruction for Multichannel Nonuniform Sampling SAR Signal Based on Image Fusion. IEEE Access, 2020, 8, 71558-71571.	2.6	5
53	SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	5
54	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

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55	Highâ€resolution synthetic aperture radar based on the IEEE 802.11 protocol. Electronics Letters, 2015, 51, 1815-1817.	0.5	4
56	Multi-target positioning for passive sensor network via bistatic range space projection. Science China Information Sciences, 2016, 59, 1-3.	2.7	4
57	Region adaptive morphological reconstruction fuzzy C-means for near-field 3-D SAR image target extraction. , 2021, 113, 103036.		4
58	A Novel Sub-Image Local Area Minimum Entropy Reconstruction Method for HRWS SAR Adaptive Unambiguous Imaging. Remote Sensing, 2021, 13, 3115.	1.8	4
59	Video SAR Ground Moving Target Indication Based on Multi-Target Tracking Neural Network. , 2021, , .		4
60	Contextual Squeeze-and-Excitation Mask R-CNN for SAR Ship Instance Segmentation. , 2022, , .		4
61	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
62	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
63	Frequency domain imaging algorithm for spaceborne/airborne hybrid bistatic SAR. , 2007, , .		3
64	Fusion of Multifocus Images by Combining Edge Maps and the Sum-Modified-Laplacian Technique. , 2011, , .		3
65	Nonlinear RCMC method for spaceborne/airborne forward-looking bistatic SAR. Journal of Systems Engineering and Electronics, 2012, 23, 201-207.	1.1	3
66	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
67	High-Speed Aircraft Single Channel SAR-GMTI Based on Neural Network. , 2019, , .		3
68	3D SAR Image Background Separation Based on Seeded Region Growing. IEEE Access, 2019, 7, 179842-179863.	2.6	3
69	Sparsity-Driven ISAR Imaging via Hierarchical Channel-Mixed Framework. IEEE Sensors Journal, 2021, 21, 19222-19235.	2.4	3
70	Non-Line-Of-Sight Imaging by Millimeter Wave Radar. , 2021, , .		3
71	Shipdenet-18: An Only 1 Mb With Only 18 Convolution Layers Light-Weight Deep Learning Network For Sar Ship Detection. , 2020, , .		3
72	Comparison of MF and CS Algorithm in 3-D Near-Field SAR Imaging. , 2021, , .		3

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73	On Salient Concrete Crack Detection Via Improved Yolov5. , 2021, , .		3
74	Resolution enhancement of SAR image using the modified IBP method. , 2010, , .		2
75	Concept on airship-borned linear array 3-D imaging SAR. , 2011, , .		2
76	Imaging algorithm based on Least-Square NUFFT method for spaceborne/airborne squint mode bistatic SAR. , 2012, , .		2
77	Range cell migration correction for bistatic SAR image formation. , 2012, , .		2
78	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
79	Tracking targets in G0 clutter via dynamic programming based track-before-detect. , 2015, , .		2
80	A fast three-dimensional frequency-domain back projection imaging algorithm based on GPU. , 2018, , .		2
81	Multi-Baseline Synthetic Aperture Radar 3-D Imaging via the Same Spatial Surface Projection. , 2019, , .		2
82	SAR-GMTI for Slow Moving Target Based on Neural Network. , 2019, , .		2
83	Ship Detection Based on Faster R-CNN in SAR Imagery by Anchor Box Optimization. , 2019, , .		2
84	A HOG Feature Fusion Method to Improve CNN-Based SAR Ship Classification Accuracy. , 2021, , .		2
85	Enhanced Deep Convolutional Neural Network for Building Component Detection Towards Structural Health Monitoring. , 2021, , .		2
86	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
87	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
88	A Novel Ground Moving Target Radial Velocity Estimation Method for Dual-Beam Along-Track Interferometric Sar. , 2020, , .		2
89	Semi-Supervised Learning-Based Remote Sensing Image Scene Classification Via Adaptive Perturbation Training. , 2020, , .		2
90	A High-Precision Motion Errors Compensation Method Based on Sub-Image Reconstruction for HRWS SAR Imaging. Remote Sensing, 2022, 14, 1033.	1.8	2

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91	Investigating Vision Transformer Models for Low-Resolution Medical Image Recognition. , 2021, , .		2
92	Bistatic SAR image formation algorithm using keystone transform. , 2011, , .		1
93	A simple reference point spectrum model and modified Omega-K imaging algorithm for spaceborne/airborne bistatic SAR. , 2013, , .		1
94	A sub-aperture and blocking autofocus backprojection method for SAR. , 2015, , .		1
95	Hierarchical and iterative multi-target positioning via imaging strategy. , 2016, , .		1
96	Range direction focusing method based on single-snap MUSIC for SAR imaging. , 2018, , .		1
97	A RadCom System with Flexible Array Controls. , 2019, , .		1
98	An Autofocus Method for SAR Frequency-Domain Backprojection Imaging. , 2019, , .		1
99	Precise Autofocus for SAR Imaging Based on Joint Multi-Region Optimization. , 2019, , .		1
100	Accurate Object Detection Based on Faster R-CNN in Remote Sensing Imagery. , 2019, , .		1
101	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
102	Multiple-Overlaid-Targets Separation and High Precision Velocity Estimation Based on Bayesian Criterion in VSAR System. , 2021, , .		1
103	TomoSAR Sparse 3-D Imaging Via DEM-Aided Surface Projection. , 2021, , .		1
104	Robust and Efficient ISAR Autofocusing Based on Deep Convolution Network. , 2021, , .		1
105	Target scattering coefficient measurement system and method. , 2020, , .		1
106	ISAR Compressive Sensing Imaging Using Convolution Neural Network with Interpretable Optimization. , 2020, , .		1
107	Accelerating Classification on Resource-Constrained Edge Nodes Towards Automated Structural Health Monitoring. , 2021, , .		1
108	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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109	A hybird vegetation height inversion method for dual frequency PolInSAR. , 2009, , .		0
110	A modified track-before-detect algorithm for radar weak target. , 2010, , .		0
111	Fusion of Multispectral and Panchromatic Images Using IHS Transform and ACE Model. , 2011, , .		0
112	A novel two-dimensional frequency spectrum for bistatic SAR processing. , 2011, , .		0
113	A third order range model for high speed and high maneuvering SAR using Chebyshev approximation. , 2013, , .		0
114	Generalized frequency domain imaging algorithm for arbitrary bisatic SAR. , 2013, , .		0
115	A novel antenna phase center estimation method for synthetic aperture radar. , 2015, , .		0
116	A novel initial altitude error estimation method base on autofocus for high-speed diving SAR. , 2017, , .		0
117	A synthetic bandwidth method based on frequency-domain back projection for stepped-frequency SAR. , 2017, , .		0
118	Elimination of Multi-Bounce Effect for Outdoor RCS Measurement via 3D Imaging. , 2018, , .		0
119	Research on Waveform Design and Imaging of MIMO-SAR. , 2019, , .		0
120	A fast compressed sensing algorithm via the Otsu algorithm for LASAR 3D sparse imaging. , 2019, , .		0
121	Tree Parameters Extraction VIA Ground-based Linear Array SAR 3-D Imaging. , 2019, , .		0
122	Adaptive Filtering for 3D SAR Data based on Dynamic Gaussian Threshold. , 2019, , .		0
123	Ground Moving Target Azimuth Velocity Estimation Based on Dual-Beam Along-Track Interferometric SAR. , 2019, , .		0
124	FDBP-InSAR: An Efficient Algorithm for InSAR Imaging via Frequency Domain Back Projection. Remote Sensing, 2020, 12, 3527.	1.8	0
125	Binary Clustering for Deep Network Trained by Feature Growth. IEEE Access, 2021, 9, 8354-8366.	2.6	0
126	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

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127	Non-Line-Of-Sight Radar 3-D Imaging via Sparse Reconstruction. , 2021, , .		0
128	Joint Matched Filtering and Iterative Optimization Network for 3-D mmW Imaging. , 2021, , .		0
129	Efficient Instance Segmentation Method For High-Resolution SAR Imagery. , 2021, , .		0
130	Akan-English: Transformer for Low Resource Translation. , 2021, , .		0