Jinping Sun

List of Publications by Year in descending order

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118 papers	1,250 citations	471061 17 h-index	433756 31 g-index
118 all docs	118 docs citations	118 times ranked	1238 citing authors

#	Article	IF	Citations
1	A Deep Convolutional Generative Adversarial Networks (DCGANs)-Based Semi-Supervised Method for Object Recognition in Synthetic Aperture Radar (SAR) Images. Remote Sensing, 2018, 10, 846.	1.8	107
2	A New Algorithm for SAR Image Target Recognition Based on an Improved Deep Convolutional Neural Network. Cognitive Computation, 2019, 11, 809-824.	3.6	91
3	Dual-Branch Deep Convolution Neural Network for Polarimetric SAR Image Classification. Applied Sciences (Switzerland), 2017, 7, 447.	1.3	78
4	High-Resolution SAR-Based Ground Moving Target Imaging With Defocused ROI Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1062-1073.	2.7	61
5	Multiband Radar Signal Coherent Fusion Processing With IAA and apFFT. IEEE Signal Processing Letters, 2013, 20, 463-466.	2.1	52
6	Visual Saliency Modeling for River Detection in High-Resolution SAR Imagery. IEEE Access, 2018, 6, 1000-1014.	2.6	52
7	PHD and CPHD Filtering With Unknown Detection Probability. IEEE Transactions on Signal Processing, 2018, 66, 3784-3798.	3.2	50
8	Attention Graph Convolution Network for Image Segmentation in Big SAR Imagery Data. Remote Sensing, 2019, 11, 2586.	1.8	49
9	A Novel Active Semisupervised Convolutional Neural Network Algorithm for SAR Image Recognition. Computational Intelligence and Neuroscience, 2017, 2017, 1-8.	1.1	35
10	Weakly Supervised Segmentation of SAR Imagery Using Superpixel and Hierarchically Adversarial CRF. Remote Sensing, 2019, 11, 512.	1.8	35
11	SAR-Based Paired Echo Focusing and Suppression of Vibrating Targets. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7593-7605.	2.7	30
12	A SAR Image Despeckling Method Based on Two-Dimensional S Transform Shrinkage. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3025-3034.	2.7	30
13	Semi-Supervised Generative Adversarial Nets with Multiple Generators for SAR Image Recognition. Sensors, 2018, 18, 2706.	2.1	23
14	Visual Attention ModelÂBased Vehicle Target Detection in Synthetic Aperture Radar Images: A Novel Approach. Cognitive Computation, 2015, 7, 434-444.	3.6	22
15	SAR Automatic Target Recognition Method Based on Multi-Stream Complex-Valued Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	21
16	Synthesis of conformal array antenna for hypersonic platform SAR using modified particle swarm optimisation. IET Radar, Sonar and Navigation, 2017, 11, 1235-1242.	0.9	18
17	Unknown SAR Target Identification Method Based on Feature Extraction Network and KLDâ€“RPA Joint Discrimination. Remote Sensing, 2021, 13, 2901.	1.8	18
18	River detection algorithm in SAR images based on edge extraction and ridge tracing techniques. International Journal of Remote Sensing, 2011, 32, 3485-3494.	1.3	16

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19	Biologically Inspired Progressive Enhancement Target Detection from Heavy Cluttered SAR Images. Cognitive Computation, 2016, 8, 955-966.	3.6	16
20	Beampattern Optimization for Frequency Diverse Array With Sparse Frequency Waveforms. IEEE Access, 2017, 5, 17914-17926.	2.6	16
21	Factor graph aided multiple hypothesis tracking. Science China Information Sciences, 2013, 56, 1-6.	2.7	15
22	Investigation of Wavenumber Domain Imaging Algorithm for Ground-Based Arc Array SAR. Sensors, 2017, 17, 2950.	2.1	15
23	Time- and Space-Varying Atmospheric Phase Correction in Discontinuous Ground-Based Synthetic Aperture Radar Deformation Monitoring. Sensors, 2018, 18, 3883.	2.1	15
24	A GTD model and state space approach based method for extracting the UWB scattering center of moving target. Science China Information Sciences, 2011, 54, 182-196.	2.7	14
25	High-Resolution and Wide-Swath SAR Imaging via Poisson Disk Sampling and Iterative Shrinkage Thresholding. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4692-4704.	2.7	14
26	Airport Detection in SAR Images Via Salient Line Segment Detector and Edge-Oriented Region Growing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 314-326.	2.3	13
27	Labelled multiâ€Bernoulli filter with amplitude information for tracking marine weak targets. IET Radar, Sonar and Navigation, 2019, 13, 983-991.	0.9	13
28	Spectral characteristics of mixed microâ€Doppler timeâ€frequency data sequences in microâ€motion and inertial parameter estimation of radar targets. IET Radar, Sonar and Navigation, 2014, 8, 275-281.	0.9	11
29	A novel semisupervised support vector machine classifier based on active learning and context information. Multidimensional Systems and Signal Processing, 2016, 27, 969-988.	1.7	11
30	Parameter estimation method of walking human based on radar micro-Doppler. , 2017, , .		11
31	Integrated GANs: Semi-Supervised SAR Target Recognition. IEEE Access, 2019, 7, 113999-114013.	2.6	11
32	Group Target Tracking Based on MS-MeMBer Filters. Remote Sensing, 2021, 13, 1920.	1.8	11
33	A Novel GSC Beamformer Using a Combination of Two Adaptive Filters for Smart Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 377-380.	2.4	10
34	Classification of free rigid targets with microâ€motions using inertial characteristic from radar signatures. Electronics Letters, 2014, 50, 950-952.	0.5	10
35	Multichannel High Resolution Wide Swath SAR Imaging for Hypersonic Air Vehicle with Curved Trajectory. Sensors, 2018, 18, 411.	2.1	10
36	A distributed adaptive GSC beamformer over coordinated antenna arrays network for interference mitigation. , 2012, , .		9

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37	A new motor fault detection method using multiple window S-method time-frequency analysis. , 2012, , .		9
38	A novel spaceborne SAR wide-swath imaging approach based on Poisson disk-like nonuniform sampling and compressive sensing. Science China Information Sciences, 2012, 55, 1876-1887.	2.7	9
39	Sparsityâ€aware adaptive link combination approach over distributed networks. Electronics Letters, 2014, 50, 1285-1287.	0.5	9
40	Î´-Generalized Labeled Multi-Bernoulli Filter Using Amplitude Information of Neighboring Cells. Sensors, 2018, 18, 1153.	2.1	9
41	Nonâ€parametric detector in nonâ€homogeneous clutter environments with knowledgeâ€aided permutation test. IET Radar, Sonar and Navigation, 2016, 10, 1310-1318.	0.9	8
42	Exploiting the Persymmetric Property of Covariance Matrices for Knowledge-Aided Space-Time Adaptive Processing. IEEE Access, 2018, 6, 68001-68012.	2.6	8
43	A novel few-shot learning method for synthetic aperture radar image recognition. Neurocomputing, 2021, 465, 215-227.	3.5	8
44	A Multi-Objective Quantum Genetic Algorithm for MIMO Radar Waveform Design. Remote Sensing, 2022, 14, 2387.	1.8	8
45	A novel helicopter-borne terahertz SAR imaging algorithm based on Keystone transform. , 2014, , .		7
46	A Novel Classification Algorithm Based on Incremental Semi-Supervised Support Vector Machine. PLoS ONE, 2015, 10, e0135709.	1.1	7
47	Combining Deep Convolutional Neural Network and SVM to SAR Image Target Recognition. , 2017, , .		7
48	An Efficient Implementation of Track-Oriented Multiple Hypothesis Tracker Using Graphical Model Approaches. Mathematical Problems in Engineering, 2017, 2017, 1-11.	0.6	7
49	A Novel Multi-Input Bidirectional LSTM and HMM Based Approach for Target Recognition from Multi-Domain Radar Range Profiles. Electronics (Switzerland), 2019, 8, 535.	1.8	7
50	Codesign of Beam Pattern and Sparse Frequency Waveforms for MIMO Radar. International Journal of Antennas and Propagation, 2015, 2015, 1-12.	0.7	6
51	An efficient multiple hypothesis tracker using max product belief propagation. , 2017, , .		6
52	Compressive sensing SAR imaging with real data. , 2010, , .		5
53	Sparse Frequency Waveform Design for Radar-Embedded Communication. Mathematical Problems in Engineering, 2016, 2016, 1-7.	0.6	5
54	Multiple hypothesis tracking based on the Shiryayev sequential probability ratio test. Science China Information Sciences, 2016, 59, 1.	2.7	5

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55	Pattern Synthesis of Linear Antenna Array Using Improved Differential Evolution Algorithm with SPS Framework. Sensors, 2020, 20, 5158.	2.1	5
56	Vibration Compensation of Airborne Terahertz SAR Based on Along Track Interferometry. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
57	An improved tbd algorithm based on dynamic programming for dim SAR target detection. , 2014, , .		4
58	A hybrid STAP approach to target detection for heterogeneous scenarios in radar seekers. Multidimensional Systems and Signal Processing, 2014, 25, 493-509.	1.7	4
59	Multiple walking human recognition based on radar micro-Doppler signatures. Science China Information Sciences, 2015, 58, 1-13.	2.7	4
60	Fast Algorithm for Inverse Twoâ€Dimensional S Transform and Its Application in Timeâ€Frequency Filtering for SAR Image Despeckling. Chinese Journal of Electronics, 2016, 25, 100-105.	0.7	4
61	Wavenumber domain imaging algorithm for hypersonic platform SAR with curved trajectory. , 2017, , .		4
62	Hierarchical Featureâ€Based Detection Method for SAR Targets Under Complex Environment. Chinese Journal of Electronics, 2017, 26, 647-653.	0.7	4
63	Adaptive Multiâ€Bernoulli Filter Without Need of Prior Birth Multiâ€Bernoulli Random Finite Set. Chinese Journal of Electronics, 2018, 27, 115-122.	0.7	4
64	Low-Altitude and Slow-Speed Small Target Detection Based on Spectrum Zoom Processing. Mathematical Problems in Engineering, 2018, 2018, 1-10.	0.6	4
65	A New Multiple Hypothesis Tracker Integrated with Detection Processing. Sensors, 2019, 19, 5278.	2.1	4
66	A New Multiple Hypothesis Tracker Using Validation Gate with Motion Direction Constraint. Sensors, 2020, 20, 4816.	2.1	4
67	A novel adaptive interference mitigation approach based on space time processing for global navigation system receiver arrays. , 2010, , .		3
68	Radar micro-Doppler analysis and rotation parameter estimation for rigid targets with complicated micro-motions. , 2011, , .		3
69	Focusing vibrating targets in frequency-modulation continuous-wave-synthetic aperture radar with Doppler keystone transform. Journal of Applied Remote Sensing, 2016, 10, 025019.	0.6	3
70	Estimation of human gait cycle based on cepstrum of radar micro-Doppler signatures. , 2017, , .		3
71	Amplitude Information Aided Robust Multi-Bernoulli Filter for Marine Target Tracking. , 2018, , .		3
72	Multisensor RFS Filters for Unknown and Changing Detection Probability. Electronics (Switzerland), 2019, 8, 741.	1.8	3

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73	Ocean Surface Topography Altimetry by Large Baseline Cross-Interferometry from Satellite Formation. Remote Sensing, 2020, 12, 3519.	1.8	3
74	Hâ€PMHT trackâ€beforeâ€detect processing with DPâ€based track initiation and termination. IET Signal Processing, 2016, 10, 1118-1125.	0.9	3
75	Angle aided centralized multi-sensor multiple hypothesis tracking method. , 2014, , .		2
76	Network performance analysis of Time-Triggered Ethernet based on network calculus for DIMA. , 2015, , .		2
77	A waveform-agile unscented Kalman filter for radar target tracking. , 2016, , .		2
78	Netted radar management based on anti-jamming capability. , 2017, , .		2
79	Complementary Codes Approach to Sparse Frequency Waveform Design. , 2018, , .		2
80	A Novel Semi-Supervised Learning Method Based on Fast Search and Density Peaks. Complexity, 2019, 2019, 1-23.	0.9	2
81	A Variable-Diameter-Arc-Helix Radon Transform for Detecting a Near Space Hypersonic Maneuvering Target. IEEE Access, 2019, 7, 184875-184884.	2.6	2
82	A Novel MS-MeMBer Filter for Extended Targets Tracking. IEEE Access, 2020, 8, 37596-37607.	2.6	2
83	High-quality pixel selection in ground-based SAR interferometry based on pseudo- and quasi-permanent scatterers analyses. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	2
84	Using persymmetric property in knowledge-aided space-time adaptive processing. , 2014, , .		1
85	Moving target vibration estimation in SAR using chirp modulation and autofocus. , 2014, , .		1
86	H-PMHT Track-Before-Detect Method Using Markov Chain Monte Carlo Particle Filter. , 2018, , .		1
87	Track Segment Association of Maneuvering Target Based on Expectation Maximization. , 2018, , .		1
88	Sparsity-Driven High-Resolution and Wide-Swath SAR Imaging via Poisson Disk Sampling. , 2019, , .		1
89	The FPGA Implementation of Low-Altitude and Slow-Speed Small Target Detection. , 2019, , .		1
90	A Novel IMM Filter for VideoSAR Ground Moving Target Tracking. , 2019, , .		1

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91	A Novel Track-Before-Detect Method Based on H-PMHT and the Polynomial Filter. , 2019, , .		1
92	Amplitude and Phase Errors Correction for Ground-based Arc Array SAR. , 2019, , .		1
93	Radon-S transform for hypersonic maneuvering target detection. Multidimensional Systems and Signal Processing, 2019, 30, 17-38.	1.7	1
94	A Fast Far-Field Pseudopolar Format Algorithm for Ground-Based Arc 3-D SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1697-1701.	1.4	1
95	An Improved Multiple Hypothesis Tracker Integrated with Unknown Clutter Intensity Estimator. , 2021, , .		1
96	Robust Multisensor MeMBer Filter for Multiple Extended-Target Tracking. Mathematical Problems in Engineering, 2021, 2021, 1-11.	0.6	1
97	Low Correlation Interference OFDM-NLFM Waveform Design for MIMO Radar Based on Alternating Optimization. Sensors, 2021, 21, 7704.	2.1	1
98	Stealth Maneuvering Multi-target Tracking With IMM-LMB Filter. , 2021, , .		1
99	Polarimetric characters extraction research of Kelvin wakes on PolSAR image. , 2011, , .		0
100	GTD-based 2D state-space method and its application to recover shape from range signals. , 2012, , .		0
101	Multi-hypotheses based data association for scatter centers of spin cone-shape target. , 2012, , .		0
102	Network performance analysis of Time-Triggered Ethernet based on network calculus for DIMA. , 2015, , .		0
103	Compressive sensing aided the sequential extended Kalman filter tracker for pulse Doppler radar. , 2016, , .		0
104	Maneuvering target tracking with extended set-membership filter for radar application. , 2017, , .		0
105	L<inf>1/2</inf> regularization based azimuth resolution enhancement for multi-channel radar forward-looking imaging. , 2017, , .		0
106	CramÃ©r Rao Lower Bound Derivation of Parameter Estimation for Hypersonic Platform SAR-GMTI. , 2018, , .		0
107	Application of Ground-based Deformation Monitoring Radar in Mine Slope Monitoring-Taking a mine in Inner Mongolia as an example. , 2019, , .		0
108	Impact of PRF design on GMTI performance of MIMOâ€SAR for hypersonic platform with curved trajectory. Journal of Engineering, 2019, 2019, 6067-6071.	0.6	0

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109	A Novel HRWS Imaging Algorithm with Velocity Compensation for Spaceborne Multi-channel SAR. , 2019, , .		0
110	Rotating micro deformation monitoring radar. , 2019, , .		0
111	Double-Directional Bernoulli Track - Before- Detect Filter with Particle Flow. , 2019, , .		0
112	Statistical Analysis of Typical Clutter Scenes in High Resolution SAR Images. , 2019, , .		0
113	A Novel Maneuvering Target Tracking Algorithm Using Polynomial Filter. , 2020, , .		0
114	Improved GRASP-MHT for Possibly Unresolved Measurements. , 2021, , .		0
115	A Fuzzy Adaptive Strong Tracking Algorithm with Fading Factor. , 2021, , .		0
116	An Novel Multiple Hypothesis Tracker with Adaptive Clutter Estimation for Heterogeneous Scene. , 2021, , .		0
117	A Multi-Sensor Multi-Target Tracker Based on Labeled MS-CPHD Filter. , 2021, , .		0
118	Analysis of the upper limit accuracy of an imaging radar altimeter from satellite formation. , 2022, , .		0