

Xiaolong Chen

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,459
citations

516710

16
h-index

414414

32
g-index

65
all docs

65
docs citations

65
times ranked

740
citing authors

#	ARTICLE	IF	CITATIONS
1	Maneuvering Target Detection via Radon-Fractional Fourier Transform-Based Long-Time Coherent Integration. IEEE Transactions on Signal Processing, 2014, 62, 939-953.	5.3	365
2	Detection and Extraction of Target With Micromotion in Spiky Sea Clutter Via Short-Time Fractional Fourier Transform. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1002-1018.	6.3	145
3	Transmit Beampattern Synthesis for the FDA Radar. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 98-101.	4.0	87
4	Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2225-2240.	6.3	81
5	Detection of a Low Observable Sea-Surface Target With Micromotion via the Radon-Linear Canonical Transform. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1225-1229.	3.1	77
6	Radon-fractional ambiguity function-based detection method of low-observable maneuvering target. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 815-833.	4.7	70
7	Detection of low observable moving target in sea clutter via fractal characteristics in fractional Fourier transform domain. IET Radar, Sonar and Navigation, 2013, 7, 635-651.	1.8	62
8	False-Alarm-Controllable Radar Detection for Marine Target Based on Multi Features Fusion via CNNs. IEEE Sensors Journal, 2021, 21, 9099-9111.	4.7	61
9	Space-Range-Doppler Focus-Based Low-observable Moving Target Detection Using Frequency Diverse Array MIMO Radar. IEEE Access, 2018, 6, 43892-43904.	4.2	54
10	Radar Moving Target Detection in Clutter Background via Adaptive Dual-Threshold Sparse Fourier Transform. IEEE Access, 2019, 7, 58200-58211.	4.2	43
11	Frequency Diverse Array Beampattern Synthesis With Taylor Windowed Frequency Offsets. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1901-1905.	4.0	40
12	Fast Detection Method for Low-Observable Maneuvering Target via Robust Sparse Fractional Fourier Transform. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 978-982.	3.1	32
13	Effective coherent integration method for marine target with micromotion via phase differentiation and radon's distribution. IET Radar, Sonar and Navigation, 2015, 9, 1284-1295.	1.8	31
14	Adaptive Clutter Suppression and Detection Algorithm for Radar Maneuvering Target With High-Order Motions Via Sparse Fractional Ambiguity Function. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1515-1526.	4.9	31
15	Maritime Target Detection Based on Radar Graph Data and Graph Convolutional Network. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	22
16	Sparse long-time coherent integration-based detection method for radar low-observable manoeuvring target. IET Radar, Sonar and Navigation, 2020, 14, 538-546.	1.8	19
17	Marine Target Detection Based on Improved Faster R-CNN for Navigation Radar PPI Images. , 2019, , .		18
18	Fast and Refined Processing of Radar Maneuvering Target Based on Hierarchical Detection via Sparse Fractional Representation. IEEE Access, 2019, 7, 149878-149889.	4.2	17

#	ARTICLE	IF	CITATIONS
19	Sea Clutter Suppression for Radar PPI Images Based on SCS-GAN. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1886-1890.	3.1	17
20	Antenna Beampattern With Range Null Control Using Weighted Frequency Diverse Array. IEEE Access, 2020, 8, 50107-50117.	4.2	15
21	A fast FRFT based detection algorithm of multiple moving targets in sea clutter. , 2010, , .		14
22	Labelled multi- ϵ -Bernoulli filter with amplitude information for tracking marine weak targets. IET Radar, Sonar and Navigation, 2019, 13, 983-991.	1.8	13
23	Sea clutter suppression and micromotion marine target detection via radon- ϵ -linear canonical ambiguity function. IET Radar, Sonar and Navigation, 2015, 9, 622-631.	1.8	11
24	Micro-Motion Classification of Flying Bird and Rotor Drones via Data Augmentation and Modified Multi-Scale CNN. Remote Sensing, 2022, 14, 1107.	4.0	11
25	Radon-fractional Fourier transform and its application to radar maneuvering target detection. , 2013, , .		8
26	LFM Signal Detection and Estimation Based on Deep Convolutional Neural Network. , 2019, , .		8
27	Deep CNN-Based Radar Detection for Real Maritime Target Under Different Sea States and Polarizations. Communications in Computer and Information Science, 2019, , 321-331.	0.5	8
28	A novel adaptive filtering for LFM signal in FRFT domain. , 2010, , .		7
29	Radar Signal Processing for Low-observable Marine Target-Challenges and Solutions. , 2019, , .		7
30	Marine target detection based on Marine-Faster R-CNN for navigation radar plane position indicator images. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 630-643.	2.6	7
31	Multiple-Frequency CW Radar and the Array Structure for Uncoupled Angle-Range Indication. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2203-2207.	4.0	6
32	Moving target detection at sea based on fractal characters in FRFT domain. , 2011, , .		5
33	Sea clutter suppression and moving target detection method based on clutter map cancellation in frft domain. , 2011, , .		5
34	Motion classification for radar moving target via STFT and convolution neural network. Journal of Engineering, 2019, 2019, 6287-6290.	1.1	5
35	Multi-Dimensional Automatic Detection of Scanning Radar Images of Marine Targets Based on Radar PPI-net. Remote Sensing, 2021, 13, 3856.	4.0	5
36	Small Target Detection in X-Band Sea Clutter Using the Visibility Graph. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	5

#	ARTICLE	IF	CITATIONS
37	Detection of marine target with quadratic modulated frequency micromotion signature via Morphological Component Analysis. , 2015, , .		4
38	An effective and efficient long-time coherent integration method for highly maneuvering radar target in sparse domain. , 2016, , .		4
39	High resolution extraction of radar micro-Doppler signature using sparse time-frequency distribution. , 2017, , .		4
40	Sparse Fractional Fourier Transform and its Applications in Radar Moving Target Detection. , 2018, , .		4
41	Space-Range-Doppler Focus Processing: A Novel Solution for Moving Target Integration and Estimation Using FDA-MIMO Radar. , 2018, , .		3
42	Space- Time-Range Adaptive Processing for MIMO Radar Imaging. , 2018, , .		3
43	Integrated Processing of Radar Detection and Classification for Moving Target via Time-frequency Graph and CNN Learning. , 2019, , .		3
44	Micro-Doppler signatures of sea surface targets and applications to radar detection. , 2016, , .		2
45	An overview of marine moving target detection via high-resolution sparse representation. , 2016, , .		2
46	Long-time coherent integration-based detection method for high-speed and highly maneuvering radar target. , 2016, , .		2
47	Radar Moving Target Detection via Improved Sparse Fourier Transform. , 2019, , .		2
48	SRAP for range-coupled radar imaging. IET Radar, Sonar and Navigation, 2020, 14, 601-606.	1.8	2
49	Robust Adaptive Pulse Compression Method Based on Two-Stage Phase Compensation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	2
50	A Deep Learning Method of Moving Target Classification in Clutter Background. Lecture Notes in Electrical Engineering, 2020, , 303-311.	0.4	2
51	Application of the sparse decomposition to micromotion target detection embedded in sea clutter. , 2013, , .		1
52	Sea surface micromotion target detection based on Radon-fractional ambiguity function. , 2014, , .		1
53	Detection and extraction of marine target with micromotion via short-time fractional Fourier transform in sparse domain. , 2016, , .		1
54	Detection of low-observable maneuvering target using high-order generalized Lv's distribution. , 2016, , .		1

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55	Micro-Doppler signature analysis of low-observable marine target in sparse domain. , 2017, , .		1
56	Fast and Reftned Radar Processing For Maneuvering Target via Two-stage Integration Detection. , 2019, , .		1
57	Moving target detection in clutter background with FDAâ€™MIMO radar via threeâ€™dimensional focus processing. Journal of Engineering, 2019, 2019, 5483-5486.	1.1	1
58	Sparse Lv's Distribution and Its Application for Radar Low-observable Maneuvering Target Detection. , 2019, , .		1
59	Study on the fractional power spectrum of the scattered echoes from 1-D time-varying sea surface. , 2012, , .		0
60	High-Resolution Sparse Representation of Micro-Doppler Signal in Sparse Fractional Domain. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 225-232.	0.3	0
61	MOPSO Optimized Radar CBMeMber Forward-Backward Smoothing Filter. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 604-616.	0.3	0
62	Study of Radar Target Range Profile Recognition Algorithm Based on Optimized Neural Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 617-622.	0.3	0
63	Noncooperative Radar Illuminator Based Bistatic Receiving System. Lecture Notes in Electrical Engineering, 2020, , 588-595.	0.4	0
64	Non-Parametric Searching Sparse Long-Time Coherent Integration Method for Highly Maneuverable Target of MIMO Radar. , 2021, , .		0