

Shiwei Ren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9022774/publications.pdf>

Version: 2024-02-01

55
papers

751
citations

840776

11
h-index

610901

24
g-index

56
all docs

56
docs citations

56
times ranked

431
citing authors

#	ARTICLE	IF	CITATIONS
1	Augmented Nested Arrays With Enhanced DOF and Reduced Mutual Coupling. IEEE Transactions on Signal Processing, 2017, 65, 5549-5563.	5.3	246
2	DOA estimation based on the difference and sum coarray for coprime arrays. , 2017, 69, 22-31.		63
3	Extended Nested Arrays for Consecutive Virtual Aperture Enhancement. IEEE Signal Processing Letters, 2020, 27, 575-579.	3.6	46
4	Unified coprime array with multi-period subarrays for direction-of-arrival estimation. , 2018, 74, 30-42.		37
5	A Novel Noncircular MUSIC Algorithm Based on the Concept of the Difference and Sum Coarray. Sensors, 2018, 18, 344.	3.8	35
6	2-D Unitary ESPRIT-Like Direction-of-Arrival (DOA) Estimation for Coherent Signals with a Uniform Rectangular Array. Sensors, 2013, 13, 4272-4288.	3.8	29
7	A Novel Nested Configuration Based on the Difference and Sum Co-Array Concept. Sensors, 2018, 18, 2988.	3.8	25
8	Coprime Nested Arrays for DOA Estimation: Exploiting the Nesting Property of Coprime Array. IEEE Signal Processing Letters, 2022, 29, 444-448.	3.6	19
9	Speed-Oriented Architecture for Binary Field Point Multiplication on Elliptic Curves. IEEE Access, 2019, 7, 32048-32060.	4.2	16
10	DOA estimation based on multi-resolution difference co-array perspective. , 2017, 62, 187-196.		15
11	Discrete linear canonical wavelet transform and its applications. Eurasip Journal on Advances in Signal Processing, 2018, 2018, .	1.7	15
12	Channel Modelling and Estimation for Shallow Underwater Acoustic OFDM Communication via Simulation Platform. Applied Sciences (Switzerland), 2019, 9, 447.	2.5	15
13	DOA Estimation With Enhanced DOFs by Exploiting Cyclostationarity. IEEE Transactions on Signal Processing, 2017, 65, 1486-1496.	5.3	12
14	An Efficient Algorithm for Direction Finding against Unknown Mutual Coupling. Sensors, 2014, 14, 20064-20077.	3.8	11
15	Extensions of Open Box Array With Reduced Mutual Coupling. IEEE Sensors Journal, 2018, 18, 5475-5484.	4.7	11
16	Extended Transformed Nested Arrays for DOA Estimation of Non-Circular Sources. IEEE Access, 2020, 8, 162350-162362.	4.2	11
17	Automatic Retinal Blood Vessel Segmentation Based on Multi-Level Convolutional Neural Network. , 2018, , .		10
18	Innovative Dual-Binary-Field Architecture for Point Multiplication of Elliptic Curve Cryptography. IEEE Access, 2021, 9, 12405-12419.	4.2	10

#	ARTICLE	IF	CITATIONS
19	Channel-Wise Attention Mechanism in the 3D Convolutional Network for Lung Nodule Detection. Electronics (Switzerland), 2022, 11, 1600.	3.1	10
20	Deep Learning-Aided Signal Detection for Two-Stage Index Modulated Universal Filtered Multi-Carrier Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 136-154.	7.9	9
21	Periodically Nonuniform Sampling and Reconstruction of Signals in Function Spaces Associated With the Linear Canonical Transform. IEEE Communications Letters, 2018, 22, 756-759.	4.1	8
22	Internet of things and big data analytics for smart oil field malfunction diagnosis. , 2017, , .		7
23	Accurate and Efficient LIF-Nets for 3D Detection and Recognition. IEEE Access, 2020, 8, 98562-98571.	4.2	7
24	Modified reference window for two-dimensional CFAR in radar target detection. Journal of Engineering, 2019, 2019, 7924-7927.	1.1	6
25	Near-Field Noncircular Sources Localization Based on Fourth-Order Cumulant. IEEE Access, 2020, 8, 120575-120585.	4.2	6
26	Supplementary coprime array with enhanced DOFs exploiting hole filling strategy based on the difference and sum coarray. , 2022, 121, 103325.		6
27	Hardware Acceleration of MUSIC Algorithm for Sparse Arrays and Uniform Linear Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2941-2954.	5.4	6
28	DOA estimation exploiting unified coprime array with multi-period subarrays. , 2016, , .		5
29	Generalized design method for the difference co-array of the sum co-array. , 2016, , .		5
30	Generalized Design Approach for Fourth-Order Difference Co-Array. , 2018, , .		5
31	Periodically nonuniform sampling and averaging of signals in multiresolution subspaces associated with the fractional wavelet transform. , 2018, 80, 1-11.		5
32	DOA estimation using sparse array with gain-phase error based on a novel atomic norm. , 2022, 120, 103266.		5
33	Superpixel segmentation and machine learning classification algorithm for cloud detection in remote sensing images. Journal of Engineering, 2019, 2019, 6675-6679.	1.1	4
34	2D DOA Estimation Exploiting Vertical Synthetic Planar Arrays. IEEE Access, 2021, 9, 3497-3507.	4.2	4
35	DOA estimation exploiting extended co-array of coprime array. , 2016, , .		3
36	Augmented L-Shaped Nested Array Based on the Fourth-Order Difference Co-Array Concept. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Sampling and Reconstruction of Multiband Signals in Multiresolution Subspaces Associated with the Fractional Wavelet Transform. IEEE Signal Processing Letters, 2018, , 1-1.	3.6	3
38	Generalized L-Shaped Array Based on the Difference and Sum Coarray Concept. IEEE Access, 2020, 8, 140456-140466.	4.2	3
39	Improved 2D Coprime Array Structure with the Difference and Sum Coarray Concept. Electronics (Switzerland), 2020, 9, 273.	3.1	3
40	An Approach for Image Denoising Based on Edge Soft-Judgement. , 2006, , .		2
41	Generalized L-Shaped Nested Array Concept Based on the Fourth-Order Difference Co-Array. Sensors, 2018, 18, 2482.	3.8	2
42	Accurate and Lightweight RailNet for Real-Time Rail Line Detection. Electronics (Switzerland), 2021, 10, 2038.	3.1	2
43	A robust underwater acoustic communication approach for pipeline transmission. , 2016, , .		1
44	One-side Extended Nested Array for Degree of Freedom Enhancement. , 2020, , .		1
45	DOA estimation based on sum difference coarray with virtual array interpolation concept. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.7	1
46	Synthetic sparse planar array design for two-dimensional DOA estimation. , 2022, 120, 103268.		1
47	Coprime Transformed Nested Array with Enhanced DOFs and Reduced Mutual Coupling Based on the Difference and Sum Coarray. Electronics (Switzerland), 2022, 11, 823.	3.1	1
48	Resource-Efficient Hardware Implementation of Perspective Transformation Based on Central Projection. Electronics (Switzerland), 2022, 11, 1367.	3.1	1
49	Novel gray-scale watermarking algorithm based on QFT. , 2010, , .		0
50	Range and Doppler resolution of the modified narrowband ambiguity function for Costas waveforms. , 2012, , .		0
51	Design of a dynamically reconfigurable arithmetic unit for matrix algorithms. , 2015, , .		0
52	FPGA implementation of covariance lattice LPC method using burg algorithm. , 2017, , .		0
53	Underdetermined DOA Estimation of Non-Circular Sources Exploiting Generalized qth-Order Difference and Sum Co-Array Concept. , 2021, , .		0
54	Label Interpolation Based Deep Learning for Direction of Arrival Estimation. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	Implementation of Adaptive Airborne SAR Motion Compensation Algorithm based on FPGA. , 2021, , .		0