Chun-Lin Liu

List of Publications by Year
in descending order

39 papers	1,844 citations	1163117 8 h-index	1058476 14 g-index
40 all docs	40 docs citations	40 times ranked	745 citing authors

#	Article	IF	Citations
1	Sparse Array Source Enumeration Via Coarray Subspace Optimization. , 2022, , .		0
2	Half Inverted Nested Arrays with Large Hole-Free Fourth-Order Difference Co-Arrays. , 2022, , .		2
3	On the Size and Redundancy of the Fourth-Order Difference Co-Array. IEEE Signal Processing Letters, 2021, 28, 2013-2017.	3.6	2
4	One-Bit Autocorrelation Estimation With Non-Zero Thresholds. , 2021, , .		3
5	Closed-Form Output Response of Discrete-Time Linear Time-Invariant Systems Using Intermediate Auxiliary Functions [Lecture Notes]. IEEE Signal Processing Magazine, 2020, 37, 140-145.	5.6	3
6	A General Framework for the Robustness of Structured Difference Coarrays to Element Failures. , 2020, , .		2
7	One-Bit Normalized Scatter Matrix Estimation For Complex Elliptically Symmetric Distributions. , 2020, , .		1
8	Novel algorithms for analyzing the robustness of difference coarrays to sensor failures. Signal Processing, 2020, 171, 107517.	3.7	6
9	Composite Singer Arrays with Hole-free Coarrays and Enhanced Robustness. , 2019, , .		3
10	Robustness of Difference Coarrays of Sparse Arrays to Sensor Failuresâ€"Part II: Array Geometries. IEEE Transactions on Signal Processing, 2019, 67, 3227-3242.	5.3	27
11	Robustness of Difference Coarrays of Sparse Arrays to Sensor Failuresâ€"Part I: A Theory Motivated by Coarray MUSIC. IEEE Transactions on Signal Processing, 2019, 67, 3213-3226.	5.3	38
12	Optimizing Minimum Redundancy Arrays for Robustness. , 2018, , .		16
13	Robustness of Coarrays of Sparse Arrays to Sensor Failures. , 2018, , .		11
14	Comparison of Sparse Arrays From Viewpoint of Coarray Stability and Robustness. , 2018, , .		12
15	CramÃ©râ€"Rao bounds for coprime and other sparse arrays, which find more sources than sensors. , 2017, 61, 43-61.		213
16	Hourglass Arrays and Other Novel 2-D Sparse Arrays With Reduced Mutual Coupling. IEEE Transactions on Signal Processing, 2017, 65, 3369-3383.	5.3	60
17	One-bit sparse array DOA estimation. , 2017, , .		81
18	Correlation Subspaces: Generalizations and Connection to Difference Coarrays. IEEE Transactions on Signal Processing, 2017, 65, 5006-5020.	5.3	14

#	Article	IF	Citations
19	Maximally economic sparse arrays and cantor arrays. , 2017, , .		40
20	The role of difference coarrays in correlation subspaces. , 2017, , .		0
21	High order super nested arrays. , 2016, , .		11
22	Two-dimensional sparse arrays with hole-free coarray and reduced mutual coupling. , 2016, , .		5
23	Coprime coarray interpolation for DOA estimation via nuclear norm minimization. , 2016, , .		107
24	Super Nested Arrays: Linear Sparse Arrays With Reduced Mutual Coupling—Part I: Fundamentals. IEEE Transactions on Signal Processing, 2016, 64, 3997-4012.	5.3	441
25	Super Nested Arrays: Linear Sparse Arrays With Reduced Mutual Coupling—Part II: High-Order Extensions. IEEE Transactions on Signal Processing, 2016, 64, 4203-4217.	5.3	221
26	Discrete Laguerre Gaussian Transforms and Their Applications. IEEE Transactions on Signal Processing, 2016, 64, 3156-3166.	5.3	3
27	Super nested arrays: Sparse arrays with less mutual coupling than nested arrays. , 2016, , .		40
28	New Cramér-Rao bound expressions for coprime and other sparse arrays. , 2016, , .		5
29	Tensor MUSIC in multidimensional sparse arrays. , 2015, , .		19
30	Coprime arrays and samplers for space-time adaptive processing. , 2015, , .		23
31	Remarks on the Spatial Smoothing Step in Coarray MUSIC. IEEE Signal Processing Letters, 2015, 22, 1438-1442.	3.6	393
32	Coprime DFT filter bank design: Theoretical bounds and guarantees. , 2015, , .		3
33	Design of coprime DFT arrays and filter banks. , 2014, , .		4
34	3D rotation estimation using discrete spherical harmonic oscillator transforms. , 2014, , .		1
35	Discrete Spherical Harmonic Oscillator Transforms on the Cartesian Grids Using Transformation Coefficients. IEEE Transactions on Signal Processing, 2013, 61, 1149-1164.	5.3	4
36	Differential commuting operator and closed-form eigenfunctions for linear canonical transforms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2096.	1.5	5

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37	Improved implementation algorithms of the two-dimensional nonseparable linear canonical transform. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1615.	1.5	19
38	A general form of 2D Fourier transform eigenfunctions. , 2012, , .		5
39	The generalized fractional fourier transform. , 2012, , .		1