

# Jingdong Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

3,638  
citations

201674

27  
h-index

149698

56  
g-index

116  
all docs

116  
docs citations

116  
times ranked

1701  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broad-band and broad-angle linear and circular polarization converting metasurface. Journal of Electromagnetic Waves and Applications, 2022, 36, 1102-1112.	1.6	8
2	Kronecker Product Multichannel Linear Filtering for Adaptive Weighted Prediction Error-Based Speech Dereverberation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1277-1289.	5.8	19
3	End-to-End Speaker Verification via Curriculum Bipartite Ranking Weighted Binary Cross-Entropy. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1330-1344.	5.8	10
4	Robust Pressure Matching with ATF Perturbation Constraints for Sound Field Control. , 2022, , .		6
5	Study of the Null Directions on The Performance of Differential Beamformers. , 2022, , .		1
6	DNN Based Multiframe Single-Channel Noise Reduction Filters. , 2022, , .		2
7	On Differential Beamforming With Nonuniform Linear Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1840-1852.	5.8	2
8	Microphone Array Beamforming With High Flexible Interference Attenuation and Noise Reduction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1865-1876.	5.8	4
9	Steering Study of Linear Differential Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 158-170.	5.8	29
10	Wideband Fabryâ€“Perot Resonator Antenna Employing Multilayer Partially Reflective Surface. IEEE Transactions on Antennas and Propagation, 2021, 69, 2404-2409.	5.1	26
11	On microphone array beamforming and insights into the underlying signal models in the short-time-Fourier-transform domain. Journal of the Acoustical Society of America, 2021, 149, 660-672.	1.1	4
12	Array Beamforming with Linear Difference Equations. Springer Topics in Signal Processing, 2021, , .	0.2	7
13	On the Robustness of the Superdirective Beamformer. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 838-849.	5.8	15
14	On the Design of 3D Steerable Beamformers With Uniform Concentric Circular Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2764-2778.	5.8	7
15	Robust Source Separation with Differential Microphone Arrays and Independent Low-Rank Matrix Analysis. , 2021, , .		0
16	Beamforming with Cube Microphone Arrays Via Kronecker Product Decompositions. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1774-1784.	5.8	15
17	A New Method to Design Steerable First-Order Differential Beamformers. IEEE Signal Processing Letters, 2021, 28, 563-567.	3.6	5
18	Differential Beamforming From the Beampattern Factorization Perspective. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 632-643.	5.8	5

#	ARTICLE	IF	CITATIONS
19	A Single-Input/Binaural-Output Antiphase Speech Enhancement Method for Speech Intelligibility Improvement. IEEE Signal Processing Letters, 2021, 28, 1445-1449.	3.6	4
20	On the compromise between noise reduction and speech/noise spatial information preservation in binaural speech enhancement. Journal of the Acoustical Society of America, 2021, 149, 3151-3162.	1.1	3
21	Planar Array Geometry Optimization for Region Sound Acquisition. , 2021, , .		2
22	Robust Steerable Differential Beamformers with Null Constraints for Concentric Circular Microphone Arrays. , 2021, , .		1
23	Combined Differential Beamforming With Uniform Linear Microphone Arrays. , 2021, , .		1
24	A Simplified Wiener Beamformer Based on Covariance Matrix Modelling. , 2021, , .		2
25	On the Design of Square Differential Microphone Arrays with a Multistage Structure. , 2021, , .		4
26	2.5-D Partially Reflective Surface for Resonant Cavity Antennas: Design and Synthesis. IEEE Transactions on Antennas and Propagation, 2021, 69, 3771-3777.	5.1	2
27	Design and Experimental Analysis of Dual-Band Polarization Converting Metasurface. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1409-1413.	4.0	38
28	A New Class of Differential Beamformers. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 594-606.	5.8	3
29	Time Difference of Arrival Estimation Based on a Kronecker Product Decomposition. IEEE Signal Processing Letters, 2021, 28, 51-55.	3.6	20
30	On a Particular Family of Differential Beamformers With Cardioid-Like and No-Null Patterns. IEEE Signal Processing Letters, 2021, 28, 140-144.	3.6	6
31	Robust Dereverberation With Kronecker Product Based Multichannel Linear Prediction. IEEE Signal Processing Letters, 2021, 28, 101-105.	3.6	23
32	Binaural Heterophasic Superdirective Beamforming. Sensors, 2021, 21, 74.	3.8	3
33	Design of Planar Differential Microphone Arrays With Fractional Orders. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 116-130.	5.8	28
34	Synthesis of Ultraminiaturized Frequency-Selective Surfaces Utilizing 2.5-D Tapered Meandering Lines. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 163-167.	4.0	17
35	Design and Analysis of an Ultraminiaturized FSS Using 2.5-D Convolved Square Spirals. IEEE Transactions on Antennas and Propagation, 2020, 68, 2919-2925.	5.1	22
36	A class of multichannel sparse linear prediction algorithms for time delay estimation of speech sources. Signal Processing, 2020, 169, 107395.	3.7	5

#	ARTICLE	IF	CITATIONS
37	Online Proximal Learning Over Jointly Sparse Multitask Networks With $\ell_{1/2}$ Regularization. IEEE Transactions on Signal Processing, 2020, 68, 6319-6335.	5.3	5
38	Design and experimental analysis of dual-band polarization converting metasurface for microwave applications. Scientific Reports, 2020, 10, 15393.	3.3	27
39	Kronecker Product Beamforming with Multiple Differential Microphone Arrays. , 2020, , .		13
40	Heterophasic Binaural Differential Beamforming for Speech Intelligibility Improvement. IEEE Transactions on Vehicular Technology, 2020, 69, 13497-13509.	6.3	7
41	Continuously steerable differential beamformers with null constraints for circular microphone arrays. Journal of the Acoustical Society of America, 2020, 148, 1248-1258.	1.1	17
42	Steerable differential beamformers with planar microphone arrays. Eurasip Journal on Audio, Speech, and Music Processing, 2020, 2020, .	2.1	8
43	On Estimation of Time-Varying Variances of Source and Noise for Sensor Array Processing. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2865-2879.	5.8	1
44	Robust and steerable kronecker product differential beamforming With rectangular microphone arrays. , 2020, , .		19
45	Beamforming With Small-Spacing Microphone Arrays Using Constrained/Generalized LASSO. IEEE Signal Processing Letters, 2020, 27, 356-360.	3.6	8
46	Robust Frequency-Domain Recursive Least M-Estimate Adaptive Filter For Acoustic System Identification. , 2020, , .		1
47	Speaker Verification by Partial AUC Optimization With Mahalanobis Distance Metric Learning. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1533-1548.	5.8	12
48	Partial AUC Optimization Based Deep Speaker Embeddings with Class-Center Learning for Text-Independent Speaker Verification. , 2020, , .		14
49	A Simple Theory and New Method of Differential Beamforming With Uniform Linear Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1079-1093.	5.8	50
50	Model-based distributed node clustering and multi-speaker speech presence probability estimation in wireless acoustic sensor networks. Journal of the Acoustical Society of America, 2020, 147, 4189-4201.	1.1	12
51	Cosine metric learning based speaker verification. Speech Communication, 2020, 118, 10-20.	2.8	6
52	Affine Combination of Diffusion Strategies Over Networks. IEEE Transactions on Signal Processing, 2020, 68, 2087-2104.	5.3	24
53	Generalized combined nonlinear adaptive filters: From the perspective of diffusion adaptation over networks. Signal Processing, 2020, 172, 107507.	3.7	5
54	Differential Beamforming on Graphs. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 901-913.	5.8	16

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55	Wide 3-dB beamwidth step-walled rectangular dielectric resonator antenna. Journal of Electromagnetic Waves and Applications, 2020, 34, 349-361.	1.6	9
56	An Improved Solution to the Frequency-Invariant Beamforming with Concentric Circular Microphone Arrays. , 2020, , .		1
57	Convex Combination of Diffusion Strategies Over Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 714-731.	2.8	8
58	On the Design of Flexible Kronecker Product Beamformers with Linear Microphone Arrays. , 2019, , .		14
59	Broadbeam Cylindrical Dielectric Resonator Antenna. IEEE Access, 2019, 7, 112653-112661.	4.2	16
60	Differential Kronecker Product Beamforming. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 892-902.	5.8	29
61	On the Design of Target Beampatterns for Differential Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1295-1307.	5.8	12
62	Window-Based Constant Beamwidth Beamformer. Sensors, 2019, 19, 2091.	3.8	18
63	Design of Optimal Linear Differential Microphone Arrays Based Array Geometry Optimization. , 2019, , .		3
64	Array Processing. Springer Topics in Signal Processing, 2019, , .	0.2	47
65	On Robust and High Directive Beamforming With Small-Spacing Microphone Arrays for Scattered Sources. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 842-852.	5.8	15
66	Generalized Combined Nonlinear Adaptive Filters for Nonlinear Acoustic Echo Cancellation. , 2019, , .		1
67	Investigation on Broadbeam Acute Isosceles Triangular Dielectric Resonator Antenna. , 2019, , .		0
68	Recursive Variable Span Linear Filter for Noise Reduction. IEEE Signal Processing Letters, 2019, 26, 1902-1906.	3.6	2
69	Acoustic Source Localization Based on Geometric Projection in Reverberant and Noisy Environments. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 143-155.	10.8	21
70	Broadbeam Acute Isosceles Triangular Dielectric Resonator Antenna. , 2019, , .		0
71	Beamforming based on null-steering with small spacing linear microphone arrays. Journal of the Acoustical Society of America, 2018, 143, 2651-2665.	1.1	8
72	Microphone array beamforming based on maximization of the front-to-back ratio. Journal of the Acoustical Society of America, 2018, 144, 3450-3464.	1.1	6

#	ARTICLE	IF	CITATIONS
73	A Front-End Speech Enhancement System for Robust Automotive Speech Recognition. , 2018, , .		1
74	Dereverberation with Differential Microphone Arrays and the Weighted-Prediction-Error Method. , 2018, , .		12
75	A Speech Enhancement System for Automotive Speech Recognition with a Hybrid Voice Activity Detection Method. , 2018, , .		4
76	A Single-Channel Noise Reduction Filtering/Smoothing Technique in the Time Domain. , 2018, , .		3
77	A flexible high directivity beamformer with spherical microphone arrays. Journal of the Acoustical Society of America, 2018, 143, 3024-3035.	1.1	29
78	Noise Robust Frequency-Domain Adaptive Blind Multichannel Identification With $\ell_p$ -Norm Constraint. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1608-1619.	5.8	5
79	Insights Into Frequency-Invariant Beamforming With Concentric Circular Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 2305-2318.	5.8	69
80	On the design of differential beamformers with arbitrary planar microphone array geometry. Journal of the Acoustical Society of America, 2018, 144, EL66-EL70.	1.1	27
81	On the Design of Frequency-Invariant Beampatterns With Uniform Circular Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1140-1153.	5.8	106
82	Design of robust concentric circular differential microphone arrays. Journal of the Acoustical Society of America, 2017, 141, 3236-3249.	1.1	44
83	Robust multichannel TDOA estimation for speaker localization using the impulsive characteristics of speech spectrum. , 2017, , .		7
84	Design of robust differential microphone arrays with the Jacobiâ€“Anger expansion. Applied Acoustics, 2016, 110, 194-206.	3.3	26
85	Reduced-Order Robust Superdirective Beamforming With Uniform Linear Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1548-1559.	5.8	15
86	Fundamentals of Differential Beamforming. Springer Briefs in Electrical and Computer Engineering, 2016, , .	0.5	44
87	Subspace superdirective beamforming with uniform circular microphone arrays. , 2016, , .		7
88	Superdirective Beamforming Based on the Krylov Matrix. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 2531-2543.	5.8	27
89	Design of Directivity Patterns with a Unique Null of Maximum Multiplicity. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 226-235.	5.8	12
90	Design of robust differential microphone arrays with orthogonal polynomials. Journal of the Acoustical Society of America, 2015, 138, 1079-1089.	1.1	22

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91	Direction-of-arrival estimation of passive acoustic sources in reverberant environments based on the Householder transformation. Journal of the Acoustical Society of America, 2015, 138, 3053-3060.	1.1	15
92	Design of Circular Differential Microphone Arrays. Springer Topics in Signal Processing, 2015, , .	0.2	83
93	On time delay estimation from a sparse linear prediction perspective. Journal of the Acoustical Society of America, 2015, 137, 1044-1047.	1.1	8
94	Study of nonuniform linear differential microphone arrays with the minimum-norm filter. Applied Acoustics, 2015, 98, 62-69.	3.3	18
95	A multistage minimum variance distortionless response beamformer for noise reduction. Journal of the Acoustical Society of America, 2015, 137, 1377-1388.	1.1	9
96	Theoretical Analysis of Differential Microphone Array Beamforming and an Improved Solution. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 2093-2105.	5.8	50
97	On the design and implementation of linear differential microphone arrays. Journal of the Acoustical Society of America, 2014, 136, 3097-3113.	1.1	86
98	Robust blind identification of room acoustic channels in symmetric alpha-stable distributed noise environments. Journal of the Acoustical Society of America, 2014, 136, 693-704.	1.1	16
99	A Family of Maximum SNR Filters for Noise Reduction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 2034-2047.	5.8	23
100	Performance Study of the MVDR Beamformer as a Function of the Source Incidence Angle. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 67-79.	5.8	66
101	Design of Robust Differential Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1455-1466.	5.8	46
102	Study and Design of Differential Microphone Arrays. Springer Topics in Signal Processing, 2013, , .	0.2	87
103	Time Difference of Arrival Estimation Exploiting Multichannel Spatio-Temporal Prediction. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 463-475.	3.2	27
104	An Integrated Solution for Online Multichannel Noise Tracking and Reduction. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2159-2169.	3.2	95
105	Gaussian Model-Based Multichannel Speech Presence Probability. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1072-1077.	3.2	67
106	On the Importance of the Pearson Correlation Coefficient in Noise Reduction. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 757-765.	3.2	266
107	Fundamentals of Noise Reduction. , 2008, , 843-872.		33
108	Time Delay Estimation via Minimum Entropy. IEEE Signal Processing Letters, 2007, 14, 157-160.	3.6	73

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109	On Microphone-Array Beamforming From a MIMO Acoustic Signal Processing Perspective. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1053-1065.	3.2	118
110	Time Delay Estimation in Room Acoustic Environments: An Overview. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	203
111	New insights into the noise reduction Wiener filter. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 1218-1234.	3.2	464
112	Time-Delay Estimation via Linear Interpolation and Cross Correlation. IEEE Transactions on Speech and Audio Processing, 2004, 12, 509-519.	1.5	181
113	Robust time delay estimation exploiting redundancy among multiple microphones. IEEE Transactions on Speech and Audio Processing, 2003, 11, 549-557.	1.5	114