

Jacob Benesty

List of Publications by Year in descending order

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445
papers

12,372
citations

30070

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39675

94
g-index

498
all docs

498
docs citations

498
times ranked

4053
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights into the noise reduction Wiener filter. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 1218-1234.	3.2	464
2	Advances in Network and Acoustic Echo Cancellation. Digital Signal Processing, 2001, , .	0.7	375
3	Real-time passive source localization: a practical linear-correction least-squares approach. IEEE Transactions on Speech and Audio Processing, 2001, 9, 943-956.	1.5	370
4	A Nonparametric VSS NLMS Algorithm. IEEE Signal Processing Letters, 2006, 13, 581-584.	3.6	312
5	A Robust Variable Forgetting Factor Recursive Least-Squares Algorithm for System Identification. IEEE Signal Processing Letters, 2008, 15, 597-600.	3.6	308
6	Adaptive eigenvalue decomposition algorithm for passive acoustic source localization. Journal of the Acoustical Society of America, 2000, 107, 384-391.	1.1	287
7	An improved PNLMS algorithm. , 2002, , .		276
8	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
9	A better understanding and an improved solution to the specific problems of stereophonic acoustic echo cancellation. IEEE Transactions on Speech and Audio Processing, 1998, 6, 156-165.	1.5	248
10	An Affine Projection Sign Algorithm Robust Against Impulsive Interferences. IEEE Signal Processing Letters, 2010, 17, 327-330.	3.6	232
11	Time Delay Estimation in Room Acoustic Environments: An Overview. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	203
12	A fast recursive algorithm for optimum sequential signal detection in a BLAST system. IEEE Transactions on Signal Processing, 2003, 51, 1722-1730.	5.3	197
13	Noise Reduction in Speech Processing. Springer Topics in Signal Processing, 2009, , .	0.2	195
14	On Optimal Frequency-Domain Multichannel Linear Filtering for Noise Reduction. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 260-276.	3.2	189
15	Time-Delay Estimation via Linear Interpolation and Cross Correlation. IEEE Transactions on Speech and Audio Processing, 2004, 12, 509-519.	1.5	181
16	A New Robust Variable Step-Size NLMS Algorithm. IEEE Transactions on Signal Processing, 2008, 56, 1878-1893.	5.3	164
17	A new class of doubletalk detectors based on cross-correlation. IEEE Transactions on Speech and Audio Processing, 2000, 8, 168-172.	1.5	162
18	A class of frequency-domain adaptive approaches to blind multichannel identification. IEEE Transactions on Signal Processing, 2003, 51, 11-24.	5.3	153

#	ARTICLE	IF	CITATIONS
19	On the evaluation of estimated impulse responses. IEEE Signal Processing Letters, 1998, 5, 174-176.	3.6	131
20	A Variable Step-Size Affine Projection Algorithm Designed for Acoustic Echo Cancellation. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1466-1478.	3.2	126
21	Double-talk robust fast converging algorithms for network echo cancellation. IEEE Transactions on Speech and Audio Processing, 2000, 8, 656-663.	1.5	124
22	A Generalized Steered Response Power Method for Computationally Viable Source Localization. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2510-2526.	3.2	122
23	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
24	An Efficient Proportionate Affine Projection Algorithm for Echo Cancellation. IEEE Signal Processing Letters, 2010, 17, 165-168.	3.6	118
25	New Insights Into the MVDR Beamformer in Room Acoustics. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 158-170.	3.2	116
26	Robust time delay estimation exploiting redundancy among multiple microphones. IEEE Transactions on Speech and Audio Processing, 2003, 11, 549-557.	1.5	114
27	A Study of the LCMV and MVDR Noise Reduction Filters. IEEE Transactions on Signal Processing, 2010, 58, 4925-4935.	5.3	111
28	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
29	Variable Step-Size NLMS Algorithm for Under-Modeling Acoustic Echo Cancellation. IEEE Signal Processing Letters, 2008, 15, 5-8.	3.6	105
30	A generalized MVDR spectrum. IEEE Signal Processing Letters, 2005, 12, 827-830.	3.6	99
31	Adaptive multi-channel least mean square and Newton algorithms for blind channel identification. Signal Processing, 2002, 82, 1127-1138.	3.7	95
32	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
33	Study and Design of Differential Microphone Arrays. Springer Topics in Signal Processing, 2013, , .	0.2	87
34	On the design and implementation of linear differential microphone arrays. Journal of the Acoustical Society of America, 2014, 136, 3097-3113.	1.1	86
35	Study of the General Kalman Filter for Echo Cancellation. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1539-1549.	3.2	83
36	Design of Circular Differential Microphone Arrays. Springer Topics in Signal Processing, 2015, , .	0.2	83

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37	On Regularization in Adaptive Filtering. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1734-1742.	3.2	82
38	A blind channel identification-based two-stage approach to separation and dereverberation of speech signals in a reverberant environment. IEEE Transactions on Speech and Audio Processing, 2005, 13, 882-895.	1.5	80
39	Linear System Identification Based on a Kronecker Product Decomposition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1793-1808.	5.8	80
40	On the Identification of Bilinear Forms With the Wiener Filter. IEEE Signal Processing Letters, 2017, 24, 653-657.	3.6	78
41	Time Delay Estimation via Minimum Entropy. IEEE Signal Processing Letters, 2007, 14, 157-160.	3.6	73
42	An optimized NLMS algorithm for system identification. Signal Processing, 2016, 118, 115-121.	3.7	73
43	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
44	Variable Explicit Regularization in Affine Projection Algorithm: Robustness Issues and Optimal Choice. IEEE Transactions on Signal Processing, 2007, 55, 2096-2109.	5.3	68
45	Direction of Arrival Estimation Using the Parameterized Spatial Correlation Matrix. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1327-1339.	3.2	68
46	Gaussian Model-Based Multichannel Speech Presence Probability. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1072-1077.	3.2	67
47	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
48	On Spatial Aliasing in Microphone Arrays. IEEE Transactions on Signal Processing, 2009, 57, 1383-1395.	5.3	63
49	Sparse Adaptive Filters for Echo Cancellation. Synthesis Lectures on Speech and Audio Processing, 2010, 6, 1-124.	0.4	63
50	Study of the Wiener Filter for Noise Reduction. , 2005, , 9-41.		62
51	Recursive Least-Squares Algorithms for the Identification of Low-Rank Systems. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 903-918.	5.8	61
52	Generalized multichannel frequency-domain adaptive filtering: efficient realization and application to hands-free speech communication. Signal Processing, 2005, 85, 549-570.	3.7	60
53	Optimal Time-Domain Noise Reduction Filters. , 2011, , .		59
54	A multichannel affine projection algorithm with applications to multichannel acoustic echo cancellation. IEEE Signal Processing Letters, 1996, 3, 35-37.	3.6	58

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55	A Minimum Distortion Noise Reduction Algorithm With Multiple Microphones. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 481-493.	3.2	58
56	A Two-Stage Approach to Estimate the Angles of Arrival and the Angular Spreads of Locally Scattered Sources. IEEE Transactions on Signal Processing, 2008, 56, 1968-1983.	5.3	57
57	Speech Enhancement in the STFT Domain. , 2012, , .		56
58	A Multi-Frame Approach to the Frequency-Domain Single-Channel Noise Reduction Problem. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1256-1269.	3.2	56
59	Investigation of several types of nonlinearities for use in stereo acoustic echo cancellation. IEEE Transactions on Speech and Audio Processing, 2001, 9, 686-696.	1.5	52
60	Robust extended multidelay filter and double-talk detector for acoustic echo cancellation. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 1633-1644.	3.2	52
61	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
62	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
63	Performance of GCC- and AMDF-Based Time-Delay Estimation in Practical Reverberant Environments. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	49
64	Analysis and Comparison of Multichannel Noise Reduction Methods in a Common Framework. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 957-968.	3.2	48
65	A Two-Stage Beamforming Approach for Noise Reduction and Dereverberation. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 945-958.	3.2	48
66	Array Processing. Springer Topics in Signal Processing, 2019, , .	0.2	47
67	Immersive Audio Schemes. IEEE Signal Processing Magazine, 2011, 28, 20-32.	5.6	46
68	Design of Robust Differential Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1455-1466.	5.8	46
69	Broadband Music: Opportunities and Challenges for Multiple Source Localization. , 2007, , .		45
70	Adaptive filtering for the identification of bilinear forms. , 2018, 75, 153-167.		45
71	Fundamentals of Differential Beamforming. Springer Briefs in Electrical and Computer Engineering, 2016, , .	0.5	44
72	Design of robust concentric circular differential microphone arrays. Journal of the Acoustical Society of America, 2017, 141, 3236-3249.	1.1	44

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73	A Fast Robust Recursive Least-Squares Algorithm. IEEE Transactions on Signal Processing, 2009, 57, 1209-1216.	5.3	43
74	A robust variable step-size affine projection algorithm. Signal Processing, 2010, 90, 2806-2810.	3.7	41
75	A widely linear model for stereophonic acoustic echo cancellation. Signal Processing, 2013, 93, 511-516.	3.7	41
76	A frequency-domain double-talk detector based on a normalized cross-correlation vector. Signal Processing, 2001, 81, 1783-1787.	3.7	40
77	Proportionate Adaptive Filters From a Basis Pursuit Perspective. IEEE Signal Processing Letters, 2010, 17, 985-988.	3.6	40
78	A Perspective on Stereophonic Acoustic Echo Cancellation. Springer Topics in Signal Processing, 2011, , .	0.2	40
79	Microphone Arrays for Video Camera Steering. , 2000, , 239-259.		39
80	Identification of acoustic MIMO systems: Challenges and opportunities. Signal Processing, 2006, 86, 1278-1295.	3.7	39
81	Noise Reduction with Optimal Variable Span Linear Filters. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 631-644.	5.8	38
82	A single-channel noise reduction MVDR filter. , 2011, , .		37
83	Study of the widely linear Wiener filter for noise reduction. , 2010, , .		36
84	Optimal step size of the adaptive multichannel LMS algorithm for blind SIMO identification. IEEE Signal Processing Letters, 2005, 12, 173-176.	3.6	35
85	The fast normalized cross-correlation double-talk detector. Signal Processing, 2006, 86, 1124-1139.	3.7	35
86	Robust Doppler Spread Estimation in the Presence of a Residual Carrier Frequency Offset. IEEE Transactions on Signal Processing, 2009, 57, 4148-4153.	5.3	34
87	Enhancement of Single-Channel Periodic Signals in the Time-Domain. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1948-1963.	3.2	34
88	An overview on optimized NLMS algorithms for acoustic echo cancellation. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	34
89	New insights into the stereophonic acoustic echo cancellation problem and an adaptive nonlinearity solution. IEEE Transactions on Speech and Audio Processing, 2002, 10, 257-267.	1.5	32
90	Combined Beamformers for Robust Broadband Regularized Superdirective Beamforming. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, , 1-1.	5.8	32

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91	A Low Delay and Fast Converging Improved Proportionate Algorithm for Sparse System Identification. <i>Eurasip Journal on Audio, Speech, and Music Processing</i> , 2007, 2007, 1-8.	2.1	31
92	Enhancement of Spatial Sound Quality: A New Reverberation-Extraction Audio Upmixer. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007, 15, 2141-2150.	3.2	31
93	A Framework for Speech Enhancement With Ad Hoc Microphone Arrays. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016, 24, 1038-1051.	5.8	31
94	A real-time implementation of a stereophonic acoustic echo canceler. <i>IEEE Transactions on Speech and Audio Processing</i> , 2001, 9, 513-523.	1.5	30
95	Stereophonic acoustic echo cancellation and two-channel adaptive filtering: an overview. <i>International Journal of Adaptive Control and Signal Processing</i> , 2000, 14, 565-586.	4.1	29
96	A flexible high directivity beamformer with spherical microphone arrays. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 3024-3035.	1.1	29
97	Differential Kronecker Product Beamforming. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 892-902.	5.8	29
98	Steering Study of Linear Differential Microphone Arrays. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021, 29, 158-170.	5.8	29
99	Multichannel Frequency-Domain Adaptive Filtering with Application to Multichannel Acoustic Echo Cancellation. <i>Signals and Communication Technology</i> , 2003, , 95-128.	0.5	29
100	Stereophonic acoustic echo cancellation using nonlinear transformations and comb filtering. , 0, , .		28
101	Design of Planar Differential Microphone Arrays With Fractional Orders. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020, 28, 116-130.	5.8	28
102	Time Delay Estimation. , 2004, , 197-227.		27
103	On the influence of the forgetting factor of the RLS adaptive filter in system identification. , 2009, , .		27
104	Superdirective Beamforming Based on the Krylov Matrix. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016, 24, 2531-2543.	5.8	27
105	Efficient recursive least-squares algorithms for the identification of bilinear forms. , 2018, 83, 280-296.		27
106	On the design of differential beamformers with arbitrary planar microphone array geometry. <i>Journal of the Acoustical Society of America</i> , 2018, 144, EL66-EL70.	1.1	27
107	An improved proportionate NLMS algorithm based on the ℓ_1/ℓ_2 norm. , 2010, , .		26
108	Design of robust differential microphone arrays with the Jacobiâ€“Anger expansion. <i>Applied Acoustics</i> , 2016, 110, 194-206.	3.3	26

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109	Variable step-size NLMS algorithms designed for echo cancellation. , 2009, , .		25
110	A Perspective on Differential Microphone Arrays in the Context of Noise Reduction. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 699-704.	3.2	25
111	A Speech Distortion and Interference Rejection Constraint Beamformer. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 854-867.	3.2	25
112	The MVDR Beamformer for Speech Enhancement. Springer Topics in Signal Processing, 2010, , 225-254.	0.2	25
113	Study of the Noise-Reduction Problem in the Karhunenâ€“LoÃ¢ve Expansion Domain. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 787-802.	3.2	24
114	Frequency-Domain Design of Asymmetric Circular Differential Microphone Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 760-773.	5.8	24
115	A hybrid mono/stereo acoustic echo canceler. IEEE Transactions on Speech and Audio Processing, 1998, 6, 468-475.	1.5	23
116	Double-talk robust VSS-NLMS algorithm for under-modeling acoustic echo cancellation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	23
117	A Family of Robust Algorithms Exploiting Sparsity in Adaptive Filters. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 572-581.	3.2	23
118	Broadband Source Localization From an Eigenanalysis Perspective. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1575-1587.	3.2	23
119	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
120	Robust Dereverberation With Kronecker Product Based Multichannel Linear Prediction. IEEE Signal Processing Letters, 2021, 28, 101-105.	3.6	23
121	Regularization of the Affine Projection Algorithm. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 366-370.	3.0	22
122	Design of robust differential microphone arrays with orthogonal polynomials. Journal of the Acoustical Society of America, 2015, 138, 1079-1089.	1.1	22
123	Tensor-Based Adaptive Filtering Algorithms. Symmetry, 2021, 13, 481.	2.2	22
124	New Insights into the RLS Algorithm. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	21
125	Time Delay Estimation and Source Localization. , 2008, , 1043-1063.		21
126	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

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127	On the optimal linear filtering techniques for noise reduction. <i>Speech Communication</i> , 2007, 49, 305-316.	2.8	20
128	A Widely Linear Distortionless Filter for Single-Channel Noise Reduction. <i>IEEE Signal Processing Letters</i> , 2010, 17, 469-472.	3.6	20
129	A variable step size evolutionary affine projection algorithm. , 2011, , .		20
130	Binaural Noise Reduction in the Time Domain With a Stereo Setup. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011, 19, 2260-2272.	3.2	20
131	A practical variable forgetting factor recursive least-squares algorithm. , 2014, , .		20
132	Widely linear general Kalman filter for stereophonic acoustic echo cancellation. <i>Signal Processing</i> , 2014, 94, 570-575.	3.7	20
133	Signal Enhancement with Variable Span Linear Filters. <i>Springer Topics in Signal Processing</i> , 2016, , .	0.2	20
134	Time Difference of Arrival Estimation Based on a Kronecker Product Decomposition. <i>IEEE Signal Processing Letters</i> , 2021, 28, 51-55.	3.6	20
135	Steered Beamforming Approaches for Acoustic Source Localization. <i>Springer Topics in Signal Processing</i> , 2010, , 307-337.	0.2	20
136	Adaptive Multichannel Time Delay Estimation Based on Blind System Identification for Acoustic Source Localization. <i>Signals and Communication Technology</i> , 2003, , 227-247.	0.5	20
137	Regularization of the RLS Algorithm. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2011, E94-A, 1628-1629.	0.3	20
138	On the Global Output SNR of the Parameterized Frequency-Domain Multichannel Noise Reduction Wiener Filter. <i>IEEE Signal Processing Letters</i> , 2010, 17, 425-428.	3.6	19
139	An efficient Kalman filter for the identification of low-rank systems. <i>Signal Processing</i> , 2020, 166, 107239.	3.7	19
140	Robust and steerable kronecker product differential beamforming With rectangular microphone arrays. , 2020, , .		19
141	Kronecker Product Multichannel Linear Filtering for Adaptive Weighted Prediction Error-Based Speech Dereverberation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2022, 30, 1277-1289.	5.8	19
142	Recursive and Fast Recursive Capon Spectral Estimators. <i>Eurasip Journal on Advances in Signal Processing</i> , 2007, 2007, .	1.7	18
143	Study of nonuniform linear differential microphone arrays with the minimum-norm filter. <i>Applied Acoustics</i> , 2015, 98, 62-69.	3.3	18
144	Incoherent Synthesis of Sparse Arrays for Frequency-Invariant Beamforming. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 482-495.	5.8	18

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145	A Kronecker product CLMS algorithm for adaptive beamforming. , 2021, 111, 102968.		18
146	Identification of Linear and Bilinear Systems: A Unified Study. Electronics (Switzerland), 2021, 10, 1790.	3.1	18
147	A multichannel acoustic echo canceler double-talk detector based on a normalized cross-correlation matrix. European Transactions on Telecommunications, 2002, 13, 95-101.	1.2	17
148	On Crosstalk Cancellation and Equalization With Multiple Loudspeakers for 3-D Sound Reproduction. IEEE Signal Processing Letters, 2007, 14, 649-652.	3.6	17
149	Linearly Constrained Minimum Variance Source Localization and Spectral Estimation. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1490-1502.	3.2	17
150	Time-domain noise reduction based on an orthogonal decomposition for desired signal extraction. Journal of the Acoustical Society of America, 2012, 132, 452-464.	1.1	17
151	System Identification Based on Tensor Decompositions: A Trilinear Approach. Symmetry, 2019, 11, 556.	2.2	17
152	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
153	Synthesized stereo combined with acoustic echo cancellation for desktop conferencing. Bell Labs Technical Journal, 2002, 3, 148-158.	0.7	16
154	Direction of Arrival Estimation using Eigenanalysis of the Parameterized Spatial Correlation Matrix. , 2007, , .		16
155	Noise Reduction Algorithms in a Generalized Transform Domain. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1109-1123.	3.2	16
156	A perspective on multichannel noise reduction in the time domain. Applied Acoustics, 2013, 74, 343-355.	3.3	16
157	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
158	Differential Beamforming on Graphs. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 901-913.	5.8	16
159	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
160	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
161	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
162	On the Robustness of the Superdirective Beamformer. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 838-849.	5.8	15

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163	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
164	On the Design of Differential Kronecker Product Beamformers. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1397-1410.	5.8	15
165	A frequency domain stereophonic acoustic echo canceler exploiting the coherence between the channels. Journal of the Acoustical Society of America, 1999, 106, L30-L35.	1.1	14
166	On widely linear Wiener and tradeoff filters for noise reduction. Speech Communication, 2010, 52, 427-439.	2.8	14
167	A minimum variance distortionless response filter based on the bifrequency spectrum for single-channel noise reduction. , 2014, 33, 169-179.		14
168	Pseudo-coherence-based MVDR beamformer for speech enhancement with ad hoc microphone arrays. , 2015, , .		14
169	Subspace superdirective beamformers based on joint diagonalization. , 2016, , .		14
170	On the Design of Flexible Kronecker Product Beamformers with Linear Microphone Arrays. , 2019, , .		14
171	Linear Prediction. , 2008, , 121-134.		13
172	On the application of the LCMV beamformer to speech enhancement. , 2009, , .		13
173	A novel perspective on stereophonic acoustic echo cancellation. , 2012, , .		13
174	On the Time-Domain Widely Linear LCMV Filter for Noise Reduction With a Stereo System. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1343-1354.	3.2	13
175	A general approach to the design and implementation of linear differential microphone arrays. , 2013, , .		13
176	Kronecker Product Beamforming with Multiple Differential Microphone Arrays. , 2020, , .		13
177	Multi-Channel Frequency-Domain Adaptive Filtering. , 2000, , 121-133.		13
178	Stereophonic acoustic echo cancellation: analysis of the misalignment in the frequency domain. IEEE Signal Processing Letters, 2006, 13, 33-36.	3.6	12
179	Non-Causal Time-Domain Filters for Single-Channel Noise Reduction. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1526-1541.	3.2	12
180	A Bayesian Framework for Blind Adaptive Beamforming. IEEE Transactions on Signal Processing, 2014, 62, 2370-2384.	5.3	12

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181	First-order differential microphone arrays from a time-domain broadband perspective. , 2016, , .		12
182	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
183	Robust variable-regularized RLS algorithms. , 2017, , .		12
184	Dereverberation with Differential Microphone Arrays and the Weighted-Prediction-Error Method. , 2018, , .		12
185	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
186	Joint Sparse Concentric Array Design for Frequency and Rotationally Invariant Beampattern. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1143-1158.	5.8	12
187	Microphone Arrays: Fundamental Concepts. Springer Topics in Signal Processing, 2010, , 199-223.	0.2	12
188	Filtering Techniques for Noise Reduction and Speech Enhancement. Signals and Communication Technology, 2003, , 129-154.	0.5	11
189	Study of the optimal and simplified Kalman filters for echo cancellation. , 2013, , .		11
190	Single-channel noise reduction using unified joint diagonalization and optimal filtering. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	11
191	On the Design of Robust Steerable Frequency-Invariant Beampatterns with Concentric Circular Microphone Arrays. , 2018, , .		11
192	On the design of time-domain differential microphone arrays. Applied Acoustics, 2019, 148, 212-222.	3.3	11
193	A Recursive Least-Squares Algorithm for the Identification of Trilinear Forms. Algorithms, 2020, 13, 135.	2.1	11
194	A Real-Time Stereophonic Acoustic Subband Echo Canceler. , 2000, , 135-152.		11
195	Estimating and Time-Updating the 2-D Coherence Spectrum. IEEE Transactions on Signal Processing, 2007, 55, 2350-2354.	5.3	10
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