

Marc Moonen

List of Publications by Year in descending order

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243
papers

6,446
citations

71061

41
h-index

88593

70
g-index

251
all docs

251
docs citations

251
times ranked

3167
citing authors

#	ARTICLE	IF	CITATIONS
1	On- and off-line identification of linear state-space models. <i>International Journal of Control</i> , 1989, 49, 219-232.	1.2	379
2	Fifty Years of Acoustic Feedback Control: State of the Art and Future Challenges. <i>Proceedings of the IEEE</i> , 2011, 99, 288-327.	16.4	169
3	A Singular Value Decomposition Updating Algorithm for Subspace Tracking. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1992, 13, 1015-1038.	0.7	156
4	Autonomous Spectrum Balancing for Digital Subscriber Lines. <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 4241-4257.	3.2	152
5	Horizontal localization with bilateral hearing aids: Without is better than with. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 515-526.	0.5	144
6	Speech Understanding in Background Noise with the Two-Microphone Adaptive Beamformer BEAM ₂ in the Nucleus Freedom ₂ Cochlear Implant System. <i>Ear and Hearing</i> , 2007, 28, 62-72.	1.0	139
7	Distributed Adaptive Node-Specific Signal Estimation in Fully Connected Sensor Networks—Part I: Sequential Node Updating. <i>IEEE Transactions on Signal Processing</i> , 2010, 58, 5277-5291.	3.2	137
8	Consensus-Based Distributed Total Least Squares Estimation in Ad Hoc Wireless Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2011, 59, 2320-2330.	3.2	127
9	Superdirective Beamforming Robust Against Microphone Mismatch. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007, 15, 617-631.	3.8	124
10	Frequency-domain criterion for the speech distortion weighted multichannel Wiener filter for robust noise reduction. <i>Speech Communication</i> , 2007, 49, 636-656.	1.6	123
11	Distributed Spectrum Management Algorithms for Multiuser DSL Networks. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 4825-4843.	3.2	109
12	Binaural Noise Reduction Algorithms for Hearing Aids That Preserve Interaural Time Delay Cues. <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 1579-1585.	3.2	107
13	Speech enhancement with multichannel Wiener filter techniques in multimicrophone binaural hearing aids. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 360-371.	0.5	106
14	Theoretical Analysis of Binaural Multimicrophone Noise Reduction Techniques. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010, 18, 342-355.	3.8	106
15	Spectrum- and Energy-Efficient OFDM Based on Simultaneous Multi-Channel Reconstruction. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 6047-6059.	3.2	106
16	Improved Music Perception with Explicit Pitch Coding in Cochlear Implants. <i>Audiology and Neuro-Otology</i> , 2006, 11, 38-52.	0.6	104
17	Sparse Linear Prediction and Its Applications to Speech Processing. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012, 20, 1644-1657.	3.8	103
18	Low-rank Approximation Based Multichannel Wiener Filter Algorithms for Noise Reduction with Application in Cochlear Implants. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014, 22, 785-799.	4.0	102

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19	Joint Adaptive Compensation of Transmitter and Receiver IQ Imbalance Under Carrier Frequency Offset in OFDM-Based Systems. IEEE Transactions on Signal Processing, 2007, 55, 5246-5252.	3.2	99
20	A Near-Optimal Linear Crosstalk Precoder for Downstream VDSL. IEEE Transactions on Communications, 2007, 55, 860-863.	4.9	92
21	Diffusion Bias-Compensated RLS Estimation Over Adaptive Networks. IEEE Transactions on Signal Processing, 2011, 59, 5212-5224.	3.2	86
22	Design of far-field and near-field broadband beamformers using eigenfilters. Signal Processing, 2003, 83, 2641-2673.	2.1	76
23	Performance Analysis of Multichannel Wiener Filter-Based Noise Reduction in Hearing Aids Under Second Order Statistics Estimation Errors. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1368-1381.	3.8	75
24	MLSE and MAP Equalization for Transmission Over Doubly Selective Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 4120-4128.	3.9	74
25	Relative contributions of temporal and place pitch cues to fundamental frequency discrimination in cochlear implantees. Journal of the Acoustical Society of America, 2004, 116, 3606-3619.	0.5	70
26	Distributed Adaptive Node-Specific Signal Estimation in Fully Connected Sensor Networks—Part II: Simultaneous and Asynchronous Node Updating. IEEE Transactions on Signal Processing, 2010, 58, 5292-5306.	3.2	70
27	Distributed Adaptive Estimation of Node-Specific Signals in Wireless Sensor Networks With a Tree Topology. IEEE Transactions on Signal Processing, 2011, 59, 2196-2210.	3.2	70
28	Optimal distributed minimum-variance beamforming approaches for speech enhancement in wireless acoustic sensor networks. Signal Processing, 2015, 107, 4-20.	2.1	69
29	Robust Distributed Noise Reduction in Hearing Aids with External Acoustic Sensor Nodes. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	63
30	Analytical Expressions for the Power Spectral Density of CP-OFDM and ZP-OFDM Signals. IEEE Signal Processing Letters, 2010, 17, 371-374.	2.1	63
31	Distributed Node-Specific LCMV Beamforming in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2012, 60, 233-246.	3.2	60
32	A flexible auditory research platform using acoustic or electric stimuli for adults and young children. Journal of Neuroscience Methods, 2005, 142, 131-136.	1.3	58
33	The effect of multimicrophone noise reduction systems on sound source localization by users of binaural hearing aids. Journal of the Acoustical Society of America, 2008, 124, 484-497.	0.5	58
34	Retrieving Sparse Patterns Using a Compressed Sensing Framework: Applications to Speech Coding Based on Sparse Linear Prediction. IEEE Signal Processing Letters, 2010, 17, 103-106.	2.1	56
35	Distributed computation of the Fiedler vector with application to topology inference in ad hoc networks. Signal Processing, 2013, 93, 1106-1117.	2.1	55
36	Seeing the Bigger Picture: How Nodes Can Learn Their Place Within a Complex Ad Hoc Network Topology. IEEE Signal Processing Magazine, 2013, 30, 71-82.	4.6	53

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37	Nonlinear Acoustic Echo Cancellation Based on a Sliding-Window Leaky Kernel Affine Projection Algorithm. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 1867-1878.	3.8	52
38	Time-domain and frequency-domain per-tone equalization for OFDM over doubly selective channels. <i>Signal Processing</i> , 2004, 84, 2055-2066.	2.1	47
39	QSVD approach to on- and off-line state-space identification. <i>International Journal of Control</i> , 1990, 51, 1133-1146.	1.2	46
40	Double-Talk-Robust Prediction Error Identification Algorithms for Acoustic Echo Cancellation. <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 846-858.	3.2	46
41	On the Modeling of Rectangular Geometries in Room Acoustic Simulations. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015, 23, 774-786.	4.0	45
42	Declipping of Audio Signals Using Perceptual Compressed Sensing. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 2627-2637.	3.8	44
43	Distributed adaptive estimation of covariance matrix eigenvectors in wireless sensor networks with application to distributed PCA. <i>Signal Processing</i> , 2014, 104, 120-135.	2.1	43
44	Factors affecting the use of noise-band vocoders as acoustic models for pitch perception in cochlear implants. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 491-506.	0.5	40
45	Improved Dual Decomposition Based Optimization for DSL Dynamic Spectrum Management. <i>IEEE Transactions on Signal Processing</i> , 2010, 58, 2230-2245.	3.2	40
46	Distributed Canonical Correlation Analysis in Wireless Sensor Networks With Application to Distributed Blind Source Separation. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 4800-4813.	3.2	40
47	Partial crosstalk precompensation in downstream VDSL. <i>Signal Processing</i> , 2004, 84, 2005-2019.	2.1	39
48	A low complexity optimal spectrum balancing algorithm for digital subscriber lines. <i>Signal Processing</i> , 2007, 87, 1735-1753.	2.1	39
49	Auditory steady-state responses in cochlear implant users: Effect of modulation frequency and stimulation artifacts. <i>Hearing Research</i> , 2016, 335, 149-160.	0.9	39
50	Cooperative integrated noise reduction and node-specific direction-of-arrival estimation in a fully connected wireless acoustic sensor network. <i>Signal Processing</i> , 2015, 107, 68-81.	2.1	38
51	Distributed LCMV Beamforming in a Wireless Sensor Network With Single-Channel Per-Node Signal Transmission. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 3447-3459.	3.2	36
52	Heterogeneous and Multitask Wireless Sensor Networks – Algorithms, Applications, and Challenges. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017, 11, 450-465.	7.3	36
53	Optimally regularized adaptive filtering algorithms for room acoustic signal enhancement. <i>Signal Processing</i> , 2008, 88, 594-611.	2.1	35
54	Understanding the effect of noise on electrical stimulation sequences in cochlear implants and its impact on speech intelligibility. <i>Hearing Research</i> , 2013, 299, 79-87.	0.9	35

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55	DFT modulated filter bank design for oversampled subband systems. <i>Signal Processing</i> , 2001, 81, 1947-1973.	2.1	34
56	Multi-Task Wireless Sensor Network for Joint Distributed Node-Specific Signal Enhancement, LCMV Beamforming and DOA Estimation. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017, 11, 518-533.	7.3	34
57	Evaluation of feedback reduction techniques in hearing aids based on physical performance measures. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 1245-1261.	0.5	33
58	A Systolic Array for SVD Updating. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1993, 14, 353-371.	0.7	32
59	Adaptive feedback cancellation for audio applications. <i>Signal Processing</i> , 2009, 89, 2185-2201.	2.1	31
60	Efficient Calculation of Sensor Utility and Sensor Removal in Wireless Sensor Networks for Adaptive Signal Estimation and Beamforming. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 5857-5869.	3.2	31
61	Low-Complexity Distributed Total Least Squares Estimation in Ad Hoc Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 4321-4333.	3.2	31
62	Improving Auditory Steady-State Response Detection Using Independent Component Analysis on Multichannel EEG Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 1220-1230.	2.5	30
63	Blind Sampling Rate Offset Estimation for Wireless Acoustic Sensor Networks Through Weighted Least-Squares Coherence Drift Estimation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017, 25, 674-686.	4.0	30
64	Characterization of cochlear implant artifacts in electrically evoked auditory steady-state responses. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 127-138.	3.5	30
65	Speech intelligibility improvements with hearing aids using bilateral and binaural adaptive multichannel Wiener filtering based noise reduction. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 4743-4755.	0.5	29
66	GEVD-Based Low-Rank Approximation for Distributed Adaptive Node-Specific Signal Estimation in Wireless Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 2557-2572.	3.2	29
67	Integrated Sidelobe Cancellation and Linear Prediction Kalman Filter for Joint Multi-Microphone Speech Dereverberation, Interfering Speech Cancellation, and Noise Reduction. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020, 28, 740-754.	4.0	27
68	QRD-based unconstrained optimal filtering for acoustic noise reduction. <i>Signal Processing</i> , 2003, 83, 1889-1904.	2.1	26
69	Noise Reduction Results of an Adaptive Filtering Technique for Dual-Microphone Behind-the-Ear Hearing Aids. <i>Ear and Hearing</i> , 2004, 25, 215-229.	1.0	26
70	A Pole-Zero Placement Technique for Designing Second-Order IIR Parametric Equalizer Filters. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007, 15, 2561-2565.	3.8	26
71	SVD-Based Optimal Filtering for Noise Reduction in Dual Microphone Hearing Aids: A Real Time Implementation and Perceptual Evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1563-1573.	2.5	25
72	Integrated Active Noise Control and Noise Reduction in Hearing Aids. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010, 18, 1137-1146.	3.8	25

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73	Speech Understanding Performance of Cochlear Implant Subjects Using Time-Frequency Masking-Based Noise Reduction. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1364-1373.	2.5	24
74	Cell-Free mMIMO Support in the O-RAN Architecture: A PHY Layer Perspective for 5G and Beyond Networks. <i>IEEE Communications Standards Magazine</i> , 2022, 6, 28-34.	3.6	24
75	Joint compensation of IQ imbalance, frequency offset and phase noise in OFDM receivers. <i>European Transactions on Telecommunications</i> , 2004, 15, 283-292.	1.2	23
76	Generalized sidelobe canceller based combined acoustic feedback- and noise cancellation. <i>Signal Processing</i> , 2008, 88, 571-581.	2.1	22
77	Improved prediction error filters for adaptive feedback cancellation in hearing aids. <i>Signal Processing</i> , 2013, 93, 3062-3075.	2.1	22
78	Wiener variable step size and gradient spectral variance smoothing for double-talk-robust acoustic echo cancellation and acoustic feedback cancellation. <i>Signal Processing</i> , 2014, 104, 1-14.	2.1	22
79	Node-Specific Diffusion LMS-Based Distributed Detection Over Adaptive Networks. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 682-697.	3.2	21
80	Blind separation of non-negative source signals using multiplicative updates and subspace projection. <i>Signal Processing</i> , 2010, 90, 2877-2890.	2.1	20
81	A Stereo Music Preprocessing Scheme for Cochlear Implant Users. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2434-2442.	2.5	20
82	Unsupervised diffusion-based LMS for node-specific parameter estimation over wireless sensor networks. , 2016, , .		20
83	Binaural Noise Cue Preservation in a Binaural Noise Reduction System With a Remote Microphone Signal. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016, 24, 952-966.	4.0	20
84	Adaptive Feedback Cancellation Using a Partitioned-Block Frequency-Domain Kalman Filter Approach With PEM-Based Signal Prewhitening. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017, 25, 1784-1798.	4.0	20
85	Topology-Independent Distributed Adaptive Node-Specific Signal Estimation in Wireless Sensor Networks. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2017, 3, 130-144.	1.6	20
86	Combination of per tone equalization and windowing in DMT-receivers. <i>Signal Processing</i> , 2001, 81, 1571-1579.	2.1	19
87	Multiple Access Channel Optimal Spectrum Balancing for Upstream DSL Transmission. <i>IEEE Communications Letters</i> , 2007, 11, 398-300.	2.5	19
88	A Robust and Computationally Efficient Subspace-Based Fundamental Frequency Estimator. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010, 18, 487-497.	3.8	19
89	Optimal Power Allocation for Downstream xDSL With Per-Modem Total Power Constraints: Broadcast Channel Optimal Spectrum Balancing (BC-OSB). <i>IEEE Transactions on Signal Processing</i> , 2009, 57, 690-697.	3.2	18
90	Optimal electrode selection for multi-channel electroencephalogram based detection of auditory steady-state responses. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 254-268.	0.5	17

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91	Joint Level 2 and 3 Dynamic Spectrum Management for Downstream DSL. IEEE Transactions on Communications, 2012, 60, 3111-3122.	4.9	17
92	Motion artifact reduction in EEG recordings using multi-channel contact impedance measurements. , 2013, , .		17
93	Greedy distributed node selection for node-specific signal estimation in wireless sensor networks. Signal Processing, 2014, 94, 57-73.	2.1	17
94	A subspace identification algorithm for descriptor systems. Systems and Control Letters, 1992, 19, 47-52.	1.3	16
95	Real-Time Perception-Based Clipping of Audio Signals Using Convex Optimization. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2657-2671.	3.8	16
96	A Zone-of-Quiet Based Approach to Integrated Active Noise Control and Noise Reduction for Speech Enhancement in Hearing Aids. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1685-1697.	3.8	16
97	Distributed signal estimation in sensor networks where nodes have different interests. Signal Processing, 2012, 92, 1679-1690.	2.1	16
98	Distributed adaptive generalized eigenvector estimation of a sensor signal covariance matrix pair in a fully connected sensor network. Signal Processing, 2015, 106, 209-214.	2.1	16
99	DCT-based channel estimation for single- and multicarrier communications. Signal Processing, 2016, 128, 332-339.	2.1	16
100	Adaptive Time-Frequency Analysis for Noise Reduction in an Audio Filter Bank With Low Delay. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 784-795.	4.0	16
101	A multi-channel subband generalized singular value decomposition approach to speech enhancement. European Transactions on Telecommunications, 2002, 13, 149-158.	1.2	15
102	Combined Feedback and Noise Suppression in Hearing Aids. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1777-1790.	3.8	15
103	Methods of Extending a Generalized Sidelobe Canceller With External Microphones. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1349-1364.	4.0	15
104	Two deterministic blind channel estimation algorithms based on oblique projections. Signal Processing, 2000, 80, 481-495.	2.1	14
105	Comparison of adaptive noise reduction algorithms in dual microphone hearing aids. Speech Communication, 2006, 48, 957-970.	1.6	14
106	Amplification of interaural level differences improves sound localization in acoustic simulations of bimodal hearing. Journal of the Acoustical Society of America, 2009, 126, 3209-3213.	0.5	14
107	Enhancing sparsity in linear prediction of speech by iteratively reweighted 1-norm minimization. , 2010, , .		14
108	Joint Level 2 and 3 Dynamic Spectrum Management for Upstream VDSL. IEEE Transactions on Communications, 2011, 59, 2851-2861.	4.9	14

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109	Stable 1-Norm Error Minimization Based Linear Predictors for Speech Modeling. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 912-922.	4.0	14
110	Joint Multi-Microphone Speech Dereverberation and Noise Reduction Using Integrated Sidelobe Cancellation and Linear Prediction. , 2018, , .		14
111	A flexible research platform for multi-channel auditory steady-state response measurements. Journal of Neuroscience Methods, 2008, 169, 239-248.	1.3	13
112	Joint estimation of short-term and long-term predictors in speech coders. , 2009, , .		13
113	Comparison of frequency domain noise reduction strategies based on multichannel Wiener filtering and spatial prediction. , 2009, , .		13
114	Robust Speech-Distortion Weighted Interframe Wiener Filters for Single-Channel Noise Reduction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 97-107.	4.0	13
115	Square Root-Based Multi-Source Early PSD Estimation and Recursive RETF Update in Reverberant Environments by Means of the Orthogonal Procrustes Problem. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 755-769.	4.0	13
116	Hybrid subband/frequency-domain adaptive systems. Signal Processing, 2001, 81, 117-136.	2.1	12
117	Constraints in channel shortening equalizer design for DMT-based systems. Signal Processing, 2003, 83, 641-648.	2.1	12
118	Real-time implementations of sparse linear prediction for speech processing. , 2013, , .		12
119	Reduced-bandwidth Multi-channel Wiener Filter based binaural noise reduction and localization cue preservation in binaural hearing aids. Signal Processing, 2014, 99, 1-16.	2.1	12
120	A Frequency-Domain Adaptive Filter (FDAF) Prediction Error Method (PEM) Framework for Double-Talk-Robust Acoustic Echo Cancellation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 2074-2086.	4.0	12
121	A PEM-based frequency-domain Kalman filter for adaptive feedback cancellation. , 2015, , .		12
122	Subjective and Objective Sound-Quality Evaluation of Adaptive Feedback Cancellation Algorithms. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1010-1024.	4.0	12
123	A systolic algorithm for QSVD updating. Signal Processing, 1991, 25, 203-213.	2.1	11
124	Generalized Signal Utility for LMMSE Signal Estimation With Application to Greedy Quantization in Wireless Sensor Networks. IEEE Signal Processing Letters, 2016, 23, 1202-1206.	2.1	11
125	Distributed Combined Acoustic Echo Cancellation and Noise Reduction in Wireless Acoustic Sensor and Actuator Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 534-547.	4.0	11
126	Efficient Compensation of RF Impairments for OFDM Systems. , 2009, , .		10

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127	A low-complexity algorithm for joint spectrum and signal coordination in upstream DSL transmission. , 2011, , .		10
128	A combined multi-channel Wiener filter-based noise reduction and dynamic range compression in hearing aids. Signal Processing, 2012, 92, 417-426.	2.1	10
129	An all-frequency-domain adaptive filter with PEM-based decorrelation for acoustic feedback control. , 2015, , .		10
130	Adaptive Quantization for Multichannel Wiener Filter-Based Speech Enhancement in Wireless Acoustic Sensor Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-15.	0.8	10
131	Evaluation of a Stereo Music Preprocessing Scheme for Cochlear Implant Users. Journal of the American Academy of Audiology, 2018, 29, 035-043.	0.4	10
132	Comparative Analysis of Generalized Sidelobe Cancellation and Multi-Channel Linear Prediction for Speech Dereverberation and Noise Reduction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 544-558.	4.0	10
133	MIMO Instantaneous Blind Identification Based on Second-Order Temporal Structure. IEEE Transactions on Signal Processing, 2008, 56, 4354-4364.	3.2	9
134	Secure Information Sharing in Adversarial Adaptive Diffusion Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 111-124.	1.6	9
135	Distributed Adaptive Signal Estimation in Wireless Sensor Networks With Partial Prior Knowledge of the Desired Sources Steering Matrix. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 478-492.	1.6	9
136	Recursive least squares with stabilized inverse factorization. Signal Processing, 1990, 21, 1-15.	2.1	8
137	DMT MIMO IC Rate Maximization in DSL With Combined Signal and Spectrum Coordination. IEEE Transactions on Signal Processing, 2013, 61, 1756-1769.	3.2	8
138	Real-Time Dynamic Spectrum Management for Multi-User Multi-Carrier Communication Systems} ewcommandargmaxoperatoronamewithlimits{argmax. IEEE Transactions on Communications, 2014, 62, 1124-1137.	4.9	8
139	Generalised Sidelobe Canceller for Noise Reduction in Hearing Devices Using an External Microphone. , 2018, , .		8
140	CTH01-1: A Low Complexity Branch and Bound Approach to Optimal Spectrum Balancing for Digital Subscriber Lines. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	7
141	Digital Compensation of RF Imperfections for Broadband Wireless Systems. , 2007, , .		7
142	Full vectoring optimal power allocation in xDSL channels under per-modem power constraints and spectral mask constraints. IEEE Transactions on Communications, 2009, 57, 194-202.	4.9	7
143	Fair greening for DSL broadband access. Performance Evaluation Review, 2010, 37, 74-78.	0.4	7
144	Rank-1 approximation based multichannel wiener filtering algorithms for noise reduction in cochlear implants. , 2013, , .		7

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145	Time domain synchronous OFDM based on simultaneous multi-channel reconstruction. , 2013, , .		7
146	Independent component analysis for cochlear implant artifacts attenuation from electrically evoked auditory steady-state response measurements. Journal of Neural Engineering, 2018, 15, 016006.	1.8	7
147	Joint Acoustic Localization and Dereverberation Through Plane Wave Decomposition and Sparse Regularization. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1893-1905.	4.0	7
148	Integration of <i>a Priori</i> and Estimated Constraints Into an MVDR Beamformer for Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 2288-2300.	4.0	7
149	Partial crosstalk cancellation in a multi-user xDSL environment. , 2006, , .		6
150	Resource Allocation in ADSL Variable Length Per-Tone Equalizers. IEEE Transactions on Signal Processing, 2008, 56, 2161-2164.	3.2	6
151	Low-complexity dynamic spectrum management algorithms for digital subscriber lines. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	6
152	Reed-solomon codes implementing a coded single-carrier with cyclic prefix scheme. IEEE Transactions on Communications, 2009, 57, 1031-1038.	4.9	6
153	Robust implementation of the MUSIC algorithm. , 2009, , .		6
154	Throughput and Delay Performance of DSL Broadband Access with Cross-Layer Dynamic Spectrum Management. IEEE Transactions on Communications, 2012, 60, 2700-2711.	4.9	6
155	On the Use of Time-Domain Widely Linear Filtering for Binaural Speech Enhancement. IEEE Signal Processing Letters, 2013, 20, 649-652.	2.1	6
156	A cell breathing approach in green heterogeneous networks. , 2014, , .		6
157	Embedded-Optimization-Based Loudspeaker Precompensation Using a Hammerstein Loudspeaker Model. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1648-1659.	4.0	6
158	Dynamic Spectrum Management in Digital Subscriber Line Networks With Unequal Error Protection Requirements. IEEE Access, 2017, 5, 18107-18120.	2.6	6
159	Optimal Dynamic Spectrum Management Algorithms for Multi-User Full-Duplex DSL. IEEE Access, 2019, 7, 106600-106616.	2.6	6
160	Intersymbol and Intercarrier Interference in OFDM Transmissions Through Highly Dispersive Channels. , 2019, , .		6
161	Far-End Crosstalk Mitigation for Future Wireline Networks Beyond G.mgfast: A Survey and an Outlook. IEEE Access, 2020, 8, 9998-10039.	2.6	6
162	An integrated approach to acoustic noise and echo cancellation. Signal Processing, 2005, 85, 849-871.	2.1	5

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163	Joint spectrum management and constrained partial crosstalk cancellation in a multi-user xDSL environment. <i>Signal Processing</i> , 2007, 87, 3131-3146.	2.1	5
164	A Detection Guided Normalized Least-Mean-Squares Adaptive Partial Crosstalk Canceller for Multi-User DSL Environments. <i>IEEE Signal Processing Letters</i> , 2009, 16, 489-492.	2.1	5
165	MIMO OFDM systems with digital RF impairment compensation. <i>Signal Processing</i> , 2010, 90, 2965-2980.	2.1	5
166	Efficient calculation of the MMSE-GDFE decoding order in non-ideal DSL multiple-access channels. , 2010, , .		5
167	Lagrange Multiplier Optimization for Optimal Spectrum Balancing of DSL with Logarithmic Complexity. , 2011, , .		5
168	A speech distortion weighting based approach to integrated active noise control and noise reduction in hearing aids. <i>Signal Processing</i> , 2013, 93, 2440-2452.	2.1	5
169	Intercarrier interference in DSL networks due to asynchronous DMT transmission. , 2013, , .		5
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