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List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

3,203
citations

201674

27
h-index

168389

53
g-index

116
all docs

116
docs citations

116
times ranked

2990
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell refractive index for cell biology and disease diagnosis: past, present and future. Lab on A Chip, 2016, 16, 634-644.	6.0	400
2	Probabilistic neural-network structure determination for pattern classification. IEEE Transactions on Neural Networks, 2000, 11, 1009-1016.	4.2	229
3	Beampattern Synthesis for Linear and Planar Arrays With Antenna Selection by Convex Optimization. IEEE Transactions on Antennas and Propagation, 2010, 58, 3923-3930.	5.1	211
4	Cross-updated active noise control system with online secondary path modeling. IEEE Transactions on Speech and Audio Processing, 2001, 9, 598-602.	1.5	179
5	Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface. Advanced Optical Materials, 2017, 5, 1600938.	7.3	172
6	Nanometer-precision linear sorting with synchronized optofluidic dual barriers. Science Advances, 2018, 4, eaao0773.	10.3	161
7	Exposing Digital Image Forgeries by Detecting Discrepancies in Motion Blur. IEEE Transactions on Multimedia, 2011, 13, 443-452.	7.2	124
8	Linear Aperiodic Array Synthesis Using an Improved Genetic Algorithm. IEEE Transactions on Antennas and Propagation, 2012, 60, 895-902.	5.1	119
9	Iterative Robust Minimum Variance Beamforming. IEEE Transactions on Signal Processing, 2011, 59, 1601-1611.	5.3	103
10	Detecting the fingerprint minutiae by adaptive tracing the gray-level ridge. Pattern Recognition, 2001, 34, 999-1013.	8.1	99
11	Robust Adaptive Beamformers Based on Worst-Case Optimization and Constraints on Magnitude Response. IEEE Transactions on Signal Processing, 2009, 57, 2615-2628.	5.3	97
12	Online fingerprint template improvement. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 1121-1126.	13.9	83
13	A robust online secondary path modeling method with auxiliary noise power scheduling strategy and norm constraint manipulation. IEEE Transactions on Speech and Audio Processing, 2003, 11, 45-53.	1.5	75
14	Predictive fine granularity successive elimination for fast optimal block-matching motion estimation. IEEE Transactions on Image Processing, 2005, 14, 213-221.	9.8	64
15	Adaptive Uncertainty Based Iterative Robust Capon Beamformer Using Steering Vector Mismatch Estimation. IEEE Transactions on Signal Processing, 2011, 59, 4483-4488.	5.3	52
16	A weight-constrained FxLMS algorithm for feedforward active noise control systems. IEEE Signal Processing Letters, 2002, 9, 1-4.	3.6	48
17	Optimal Design of Nearfield Wideband Beamformers Robust Against Errors in Microphone Array Characteristics. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1950-1959.	0.1	48
18	A Robust Adaptive Beamformer Based on Worst-Case Semi-Definite Programming. IEEE Transactions on Signal Processing, 2010, 58, 5914-5919.	5.3	48

#	ARTICLE	IF	CITATIONS
19	Linear Sparse Array Synthesis With Minimum Number of Sensors. IEEE Transactions on Antennas and Propagation, 2010, 58, 720-726.	5.1	47
20	Optical Potential-Well Array for High-Selectivity, Massive Trapping and Sorting at Nanoscale. Nano Letters, 2020, 20, 5193-5200.	9.1	47
21	Discrete Wavelet Transform coefficients for emotion recognition from EEG signals. , 2012, 2012, 2251-4.		43
22	A Novel Adaptive Beamformer Based on Semidefinite Programming (SDP) With Magnitude Response Constraints. IEEE Transactions on Antennas and Propagation, 2008, 56, 1297-1307.	5.1	41
23	An investigation on number of signals whose directions-of-arrival are uniquely determinable with an electromagnetic vector sensor. Signal Processing, 1995, 47, 41-54.	3.7	40
24	A Novel Wheeze Detection Method for Wearable Monitoring Systems. , 2009, , .		40
25	Robust Constrained Adaptive Filtering Under Minimum Error Entropy Criterion. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1119-1123.	3.0	38
26	An Intelligent Scoring System and Its Application to Cardiac Arrest Prediction. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1324-1331.	3.2	37
27	Design of Robust Broadband Beamformers With Passband Shaping Characteristics Using Tikhonov Regularization. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 665-681.	3.2	33
28	UCHT-based complex sequences for asynchronous CDMA system. IEEE Transactions on Communications, 2003, 51, 618-626.	7.8	32
29	An active noise control system using online secondary path modeling with reduced auxiliary noise. IEEE Signal Processing Letters, 2002, 9, 16-18.	3.6	30
30	Robust Beampattern Synthesis for Antenna Arrays With Mutual Coupling Effect. IEEE Transactions on Antennas and Propagation, 2011, 59, 2889-2895.	5.1	28
31	Patient Outcome Prediction with Heart Rate Variability and Vital Signs. Journal of Signal Processing Systems, 2011, 64, 265-278.	2.1	28
32	Multifunctional Virus Manipulation with Large-Scale Arrays of All-Dielectric Resonant Nanocavities. Laser and Photonics Reviews, 2022, 16, .	8.7	23
33	Classification of non-tumorous skin pigmentation disorders using voting based probabilistic linear discriminant analysis. Computers in Biology and Medicine, 2018, 99, 123-132.	7.0	18
34	Self-Calibration-Based Robust Near-Field Adaptive Beamforming for Microphone Arrays. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 267-271.	2.2	17
35	Speech Emotion Recognition Using Canonical Correlation Analysis and Probabilistic Neural Network. , 2008, , .		17
36	Linear sparse array synthesis via convex optimization. , 2010, , .		16

#	ARTICLE	IF	CITATIONS
37	Robust Nearfield Wideband Beamformer Design Using Worst Case Mean Performance Optimization With Passband Response Variance Constraint. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1565-1572.	3.2	15
38	Detection of adventitious lung sounds using entropy features and a 2-D threshold setting. , 2015, , .		15
39	Effects of Sensor Position Errors on Farfield/Nearfield Wideband Beamformers for Microphone Arrays. IEEE Sensors Journal, 2015, 15, 4812-4825.	4.7	15
40	A novel robust adaptive beamformer based on worst-case linear optimization. , 2008, , .		13
41	Array shape calibration using sources in known locations. , 0, , .		12
42	An improved secondary path modeling method for active noise control systems. IEEE Signal Processing Letters, 2000, 7, 73-75.	3.6	12
43	Optofluidic Microengine in A Dynamic Flow Environment via Self-Induced Back-Action. ACS Photonics, 2020, 7, 1500-1507.	6.6	12
44	Selective Frequency Invariant Uniform Circular Broadband Beamformer. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	11
45	Robust response control for adaptive beamformers against arbitrary array imperfections. Signal Processing, 2008, 88, 2234-2245.	3.7	10
46	An improved genetic algorithm for aperiodic array synthesis. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	9
47	Hybrid threshold optimization between global image and local regions in image segmentation for melasma severity assessment. Multidimensional Systems and Signal Processing, 2017, 28, 977-994.	2.6	9
48	A new method for determining "unknown" worst-case channels for maximum-likelihood sequence estimation. IEEE Transactions on Communications, 1998, 46, 164-168.	7.8	8
49	Speech detection using microphone array. Electronics Letters, 2000, 36, 181.	1.0	8
50	Adaptive uncertainty based iterative robust capon beamformer. , 2010, , .		8
51	A new approach for speaker tracking in reverberant environment. Signal Processing, 2002, 82, 1023-1028.	3.7	7
52	Detecting digital image forgeries through inconsistent motion blur. , 2010, , .		7
53	Design of robust nearfield wideband beamformers with optimum subband constraints. Signal Processing, 2012, 92, 189-197.	3.7	7
54	Minutiae extraction by adaptive tracing the gray level ridge of the fingerprint image. , 1999, , .		6

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55	A novel robust beamformer based on linear optimization. , 2007, , .		6
56	Spectral factorization for integer-interval sampled sequence and its applications in array processing. Signal Processing, 2008, 88, 1715-1724.	3.7	6
57	A Hybrid PNN-GMM classification scheme for speech emotion recognition. , 2008, , .		6
58	BEAMPATTERN SYNTHESIS WITH LINEAR MATRIX INEQUALITIES USING MINIMAL ARRAY SENSORS. Progress in Electromagnetics Research M, 2009, 9, 165-176.	0.9	6
59	A novel respiratory rate estimation method for sound-based wearable monitoring systems. , 2011, 2011, 3213-6.		6
60	A new successive elimination algorithm for fast block matching in motion estimation. , 0, , .		5
61	Uniform circular broadband beamformer with selective frequency and spatial invariant region. , 2009, , .		5
62	Automatic Recognition of Emotional States From Human Speeches. , 0, , .		5
63	Sound Source DOA Estimation and Localization in Noisy Reverberant Environments Using Least-Squares Support Vector Machines. Journal of Signal Processing Systems, 2011, 63, 287-300.	2.1	5
64	Lung water detection using acoustic techniques. , 2012, 2012, 4258-61.		5
65	Noncontact heart rate measurement using a 24 GHz Doppler radar. , 2013, , .		5
66	Blind multipath separation and combining technique for signal recovery. Multidimensional Systems and Signal Processing, 2016, 27, 383-410.	2.6	5
67	Melasma Image Segmentation Using Extreme Learning Machine. Proceedings in Adaptation, Learning and Optimization, 2015, , 369-377.	1.6	5
68	A new algorithm for time domain equalization in OFDM systems. , 0, , .		4
69	Wearable system design with wheeze signal detection. , 2008, , .		4
70	Effects of two new features of approximate entropy and sample entropy on cardiac arrest prediction. , 2015, , .		4
71	Multiband warped filter equalizer design for loudspeaker systems. , 0, , .		3
72	QR-RLS Based Minimum Variance Distortionless Responses Beamformer. , 0, , .		3

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73	A blind cascade structure interference cancellation RAKE receiver for CDMA communications. , 2006, , .		3
74	Robust adaptive beamformers with linear matrix inequality constraints. , 2008, , .		3
75	Acoustic source localization using LS-SVMs without calibration of microphone arrays. , 2009, , .		3
76	A framework for speaker tracking using microphone array and camera. , 0, , .		2
77	Adaptive semi-blind channel estimation for OFDM systems. , 0, , .		2
78	A Novel Pseudoerror Monitor. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	2
79	Bi-model tracking of object of interest using invariant spatiogram descriptor. , 2008, , .		2
80	3D characterization and trend analysis of scents from EEG recordings of repeated scent exposure. , 2013, 2013, 1330-3.		2
81	Microfluidic Metasurfaces: Broadband Wide-€Angle Multifunctional Polarization Converter via Liquid-€Metal-€Based Metasurface (Advanced Optical Materials 7/2017). Advanced Optical Materials, 2017, 5, .	7.3	2
82	Stability Analysis of Constrained Nonlinear Phase Portrait Models of Fingerprint Orientation Images. Lecture Notes in Computer Science, 2007, , 493-502.	1.3	2
83	A study of the resolvability of vector-sensor array in direction-of-arrival estimation. , 0, , .		1
84	Bark scale equalizer design using warped filter. , 0, , .		1
85	Loudspeaker Equalization with Post-Processing. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.7	1
86	Joint impulse response shortening for DMT transceivers. Electronics Letters, 2002, 38, 1603.	1.0	1
87	An enhanced joint equalization algorithm for full-duplex DMT transceivers. IEEE Communications Letters, 2003, 7, 82-84.	4.1	1
88	A robust beamformer for OFDM based WLANs against burst interference. , 0, , .		1
89	Delay selection for TEQ in OFDM systems. , 0, , .		1
90	A novel statistical approach to ISI mitigation. , 0, , .		1

#	ARTICLE	IF	CITATIONS
91	Beam Pattern Synthesis in the Presence of Interference and Multipath. , 2006, , .		1
92	A fast fading channel identification method for OFDM communication system. , 2006, , .		1
93	An Efficient Adaptive Beamforming Technique with Pattern Control Ability. , 2006, , .		1
94	Design of broadband beamformers for microphone arrays using variably-weighted least squares. , 2008, , .		1
95	Robust adaptive beamformer exploiting symmetric structure of array. , 2008, , .		1
96	A signal-noise separation algorithm for the estimation of respiratory rate from breath sound. , 2011, , .		1
97	Robust Adaptive Microphone Array with Mainlobe and Response Ripple Control. Journal of Signal Processing Systems, 2011, 63, 301-313.	2.1	1
98	Cardiac activity detection: A fast prototyping approach with health safety considerations. , 2012, , .		1
99	Acoustic detection of excessive lung water using sub-band features. , 2015, , .		1
100	An improved image segmentation method for melasma severity assessment. , 2017, , .		1
101	Kalman Smoother and Its Application in Analysis of Snoring Sounds for the Diagnosis of Obstructive Sleep Apnea. , 2007, , 1041-1044.		1
102	Blind ISI cancellation by anchoring an arbitrary impulse response coefficient of channels. , 0, , .		0
103	Blind signal recovery for high rate CDMA systems. , 0, , .		0
104	A new algorithm for joint impulse response shortening in DMT systems. , 0, , .		0
105	An Efficient Adaptive Beamforming Techniquewith Pattern Control Ability. , 2006, , .		0
106	Array steering vector estimation with nonstationary noise exploiting calibrated noise subspace. , 2008, , .		0
107	Detection of Wheezes Using a Wearable Distributed Array of Microphones. , 2009, , .		0
108	Image authentication by motion blur consistency verification. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
109	Impulsive noise mitigation using an adaptive WMA-MVDR estimator for array based wireless communications. , 2013, , .		0
110	Multiple-pathway modeling of tumor blood flow for dynamic contrast-enhanced imaging. , 2013, , .		0
111	Kernel-based error rate estimation for M-ary modulation. , 2013, , .		0
112	Optofluidic Detection for Virus Infection Monitoring using Effective Refractive Index. , 2015, , .		0
113	New criterion for time-domain equalizer design in OFDM systems. , 2002, , .		0
114	Tailoring Light Flow in Microfluidics. , 2015, , .		0