Woon-Seng Gan

List of Publications by Year
in descending order

253	4,155	147801	182427
papers	citations	31	51
		h-index	g-index

261	261	261	1497
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving convergence of the NLMS algorithm using constrained subband updates. IEEE Signal Processing Letters, 2004, 11, 736-739.	3.6	264
2	Recent advances on active noise control: open issues and innovative applications. APSIPA Transactions on Signal and Information Processing, 2012, 1, .	3.3	264
3	Active noise control system for headphone applications. IEEE Transactions on Control Systems Technology, 2006, 14, 331-335.	5.2	150
4	A review of parametric acoustic array in air. Applied Acoustics, 2012, 73, 1211-1219.	3.3	115
5	An integrated audio and active noise control headset. IEEE Transactions on Consumer Electronics, 2002, 48, 242-247.	3.6	95
6	Inherent Decorrelating and Least Perturbation Properties of the Normalized Subband Adaptive Filter. IEEE Transactions on Signal Processing, 2006, 54, 4475-4480.	5.3	87
7	Adaptive feedback active noise control headset: implementation, evaluation and its extensions. IEEE Transactions on Consumer Electronics, 2005, 51, 975-982.	3.6	77
8	Spatial Audio for Soundscape Design: Recording and Reproduction. Applied Sciences (Switzerland), 2017, 7, 627.	2.5	70
9	Adaptive recurrent fuzzy neural networks for active noise control. Journal of Sound and Vibration, 2006, 296, 935-948.	3.9	64
10	Applications of adaptive feedback active noise control system. IEEE Transactions on Control Systems Technology, 2003, 11, 216-220.	5.2	63
11	Quality assessment of acoustic environment reproduction methods for cinematic virtual reality in soundscape applications. Building and Environment, 2019, 149, 1-14.	6.9	62
12	Effects of adding natural sounds to urban noises on the perceived loudness of noise and soundscape quality. Science of the Total Environment, 2020, 711, 134571.	8.0	61
13	Ten questions concerning active noise control in the built environment. Building and Environment, 2021, 200, 107928.	6.9	60
14	Mixed-error approach for multi-channel active noise control of open windows. Applied Acoustics, 2017, 127, 305-315.	3.3	54
15	A digital beamsteerer for difference frequency in a parametric array. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 1018-1025.	3.2	52
16	Analysis and DSP implementation of an ANC system using a filtered-error neural network. Journal of Sound and Vibration, 2005, 285, 1-25.	3.9	49
17	Active control of sound through full-sized open windows. Building and Environment, 2018, 141, 16-27.	6.9	49
18	A complex virtual source approach for calculating the diffraction beam field generated by a rectangular planar source. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 890-897.	3.0	47

#	Article	IF	Citations
19	Rapid prototyping system for teaching real-time digital signal processing. IEEE Transactions on Education, 2000, 43, 19-24.	2.4	46
20	Active control of broadband sound through the open aperture of a full-sized domestic window. Scientific Reports, 2020, 10, 10021.	3.3	46
21	Natural Sound Rendering for Headphones: Integration of signal processing techniques. IEEE Signal Processing Magazine, 2015, 32, 100-113.	5.6	42
22	Development of Parametric Loudspeaker. IEEE Potentials, 2010, 29, 20-24.	0.3	39
23	Audio Projection. IEEE Signal Processing Magazine, 2011, 28, 43-57.	5.6	39
24	Robust Source Counting and DOA Estimation Using Spatial Pseudo-Spectrum and Convolutional Neural Network. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2626-2637.	5.8	39
25	Two-gradient direction FXLMS: An adaptive active noise control algorithm with output constraint. Mechanical Systems and Signal Processing, 2019, 116, 651-667.	8.0	38
26	Acoustic beamforming of a parametric speaker comprising ultrasonic transducers. Sensors and Actuators A: Physical, 2005, 125, 91-99.	4.1	37
27	Product directivity models for parametric loudspeakers. Journal of the Acoustical Society of America, 2012, 131, 1938-1945.	1.1	36
28	Physical limits on the performance of active noise control through open windows. Applied Acoustics, 2018, 137, 9-17.	3.3	36
29	Practical Implementation of Multichannel Filtered-x Least Mean Square Algorithm Based on the Multiple-Parallel-Branch With Folding Architecture for Large-Scale Active Noise Control. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 940-953.	3.1	36
30	Identification of a parametric loudspeaker system using an adaptive Volterra filter. Applied Acoustics, 2012, 73, 1251-1262.	3.3	34
31	A wavenumber approach to analysing the active control of plane waves with arrays of secondary sources. Journal of Sound and Vibration, 2018, 419, 405-419.	3.9	33
32	Selective fixed-filter active noise control based on convolutional neural network. Signal Processing, 2022, 190, 108317.	3.7	32
33	On the use of an SPSA-based model-free feedback controller in active noise control for periodic disturbances in a duct. Journal of Sound and Vibration, 2008, 317, 456-472.	3.9	29
34	Block coordinate descent based algorithm for computational complexity reduction in multichannel active noise control system. Mechanical Systems and Signal Processing, 2021, 151, 107346.	8.0	29
35	Active noise control using a simplified fuzzy neural network. Journal of Sound and Vibration, 2004, 272, 437-449.	3.9	28
36	Teaching and learning the hows and whys of real-time digital signal processing. IEEE Transactions on Education, 2002, 45, 336-343.	2.4	27

#	Article	IF	Citations
37	Feedforward Selective Fixed-filter Active Noise Control: Algorithm and Implementation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, , 1-1.	5.8	27
38	Efficient VLSI Architecture for Lifting-Based Discrete Wavelet Packet Transform. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 422-426.	2.2	26
39	On preprocessing techniques for bandlimited parametric loudspeakers. Applied Acoustics, 2010, 71, 486-492.	3.3	26
40	Designing a fuzzy step size LMS algorithm. IET Computer Vision, 1997, 144, 261.	1.3	25
41	Active noise control: Open problems and challenges. , 2010, , .		25
42	Natural Listening over Headphones in Augmented Reality Using Adaptive Filtering Techniques. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1988-2002.	5.8	25
43	User-defined spectral manipulation of HRTF for improved localisation in 3D sound systems. Electronics Letters, 1998, 34, 2387.	1.0	24
44	Modeling of finite-amplitude sound beams: second order fields generated by a parametric loudspeaker. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 610-618.	3.0	24
45	A mixed-reality approach to soundscape assessment of outdoor urban environments augmented with natural sounds. Building and Environment, 2021, 194, 107688.	6.9	24
46	Grating lobe elimination in steerable parametric loudspeaker. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 437-450.	3.0	23
47	Stochastic analysis of FXLMS-based internal model control feedback active noise control systems. Signal Processing, 2014, 101, 121-133.	3.7	23
48	The effects of spatial separations between water sound and traffic noise sources on soundscape assessment. Building and Environment, 2020, 167, 106423.	6.9	23
49	A Comparative Analysis of Preprocessing Methods for the Parametric Loudspeaker Based on the Khokhlovâ€"Zabolotskayaâ€"Kuznetsov Equation for Speech Reproduction. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 937-946.	3.2	22
50	An overview of directivity control methods of the parametric array loudspeaker. APSIPA Transactions on Signal and Information Processing, 2014, 3, .	3.3	22
51	Linear Estimation Based Primary-Ambient Extraction for Stereo Audio Signals. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 505-517.	5.8	22
52	Feedforward multichannel virtual-sensing active control of noise through an aperture: Analysis on causality and sensor-actuator constraints. Journal of the Acoustical Society of America, 2020, 147, 32-48.	1.1	22
53	An integrated environment for rapid prototyping of DSP Algorithms using matlab and Texas instrumentsâ€™ TMS320C30. Microprocessors and Microsystems, 2000, 24, 349-363.	2.8	21
54	A simple calculation method for the self- and mutual-radiation impedance of flexible rectangular patches in a rigid infinite baffle. Journal of Sound and Vibration, 2005, 282, 179-195.	3.9	21

#	Article	IF	Citations
55	Mean-Square Performance Analysis of the Normalized Subband Adaptive Filter. , 2006, , .		21
56	Effects of contexts in urban residential areas on the pleasantness and appropriateness of natural sounds. Sustainable Cities and Society, 2020, 63, 102475.	10.4	21
57	Convergence Analysis of Narrowband Feedback Active Noise Control System With Imperfect Secondary Path Estimation. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 2403-2411.	3.2	20
58	Optimal Output-Constrained Active Noise Control Based on Inverse Adaptive Modeling Leak Factor Estimate. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1256-1269.	5.8	20
59	FRCRN: Boosting Feature Representation Using Frequency Recurrence for Monaural Speech Enhancement. , 2022, , .		20
60	Teaching DSP Software Development: From Design to Fixed-Point Implementations. IEEE Transactions on Education, 2006, 49, 122-131.	2.4	19
61	On the Subband Orthogonality of Cosine-Modulated Filter Banks. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 677-681.	2.2	19
62	Convergence Analysis of Narrowband Active Noise Equalizer System Under Imperfect Secondary Path Estimation. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 566-571.	3.2	18
63	New functional-link based equaliser. Electronics Letters, 1992, 28, 1643.	1.0	17
64	Active Control of Low-Frequency Noise through a Single Top-Hung Window in a Full-Sized Room. Applied Sciences (Switzerland), 2020, 10, 6817.	2.5	16
65	Alternative switching hybrid ANC. Applied Acoustics, 2021, 173, 107712.	3.3	16
66	SALSA: Spatial Cue-Augmented Log-Spectrogram Features for Polyphonic Sound Event Localization and Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1749-1762.	5.8	16
67	A model predictive algorithm for active noise control with online secondary path modelling. Journal of Sound and Vibration, 2004, 270, 1056-1066.	3.9	15
68	On the preprocessing and postprocessing of HRTF individualization based on sparse representation of anthropometric features. , 2015, , .		15
69	Generating dual beams from a single steerable parametric loudspeaker. Applied Acoustics, 2015, 99, 43-50.	3.3	15
70	Noisy vehicle surveillance camera: A system to deter noisy vehicle in smart city. Applied Acoustics, 2017, 117, 236-245.	3.3	15
71	Fast Continuous Measurement of HRTFs with Unconstrained Head Movements for 3D Audio. AES: Journal of the Audio Engineering Society, 2018, 66, 884-900.	1.0	15
72	Integrated psychoacoustic active noise control and masking. Applied Acoustics, 2019, 145, 339-348.	3.3	15

#	Article	IF	Citations
73	A Hybrid SFANC-FxNLMS Algorithm for Active Noise Control Based on Deep Learning. IEEE Signal Processing Letters, 2022, 29, 1102-1106.	3.6	15
74	Fuzzy step-size adjustment for the LMS algorithm. Signal Processing, 1996, 49, 145-149.	3.7	14
75	Adaptive active noise equaliser. Electronics Letters, 1997, 33, 1518.	1.0	14
76	Virtual bass for home entertainment, multimedia PC, game station and portable audio systems. IEEE Transactions on Consumer Electronics, 2001, 47, 787-796.	3.6	14
77	Improved sound separation using three loudspeakers. Acoustics Research Letters Online: ARLO, 2003, 4, 47-52.	0.7	14
78	Nonlinear least-square solution to flat-top pattern synthesis using arbitrary linear array. Signal Processing, 2005, 85, 1869-1874.	3.7	14
79	A Novel Selective Active Noise Control Algorithm to Overcome Practical Implementation Issue. , 2018, , .		14
80	Optimal Leak Factor Selection for the Output-Constrained Leaky Filtered-Input Least Mean Square Algorithm. IEEE Signal Processing Letters, 2019, 26, 670-674.	3.6	14
81	Rapid prototyping of DSP algorithms on VLIW TMS320C6701 DSP. Microprocessors and Microsystems, 2002, 26, 311-324.	2.8	13
82	FPGA implementation of parametric loudspeaker system. Microprocessors and Microsystems, 2004, 28, 261-272.	2.8	13
83	Beamwidth Control in Parametric Acoustic Array. Japanese Journal of Applied Physics, 2005, 44, 6817-6819.	1.5	13
84	On Delayless Architecture for the Normalized Subband Adaptive Filter. , 2007, , .		13
85	Fixed-Point Square Roots Using L-b Truncation [DSP Tips and Tricks]. IEEE Signal Processing Magazine, 2011, 28, 149-153.	5.6	13
86	A psychoacoustic bass enhancement system with improved transient and steady-state performance. , 2012, , .		13
87	A psychoacoustical preprocessing technique for virtual bass enhancement of the parametric loudspeaker. , 2013, , .		13
88	Time-shifted principal component analysis based cue extraction for stereo audio signals. , 2013, , .		13
89	Augmented/Mixed Reality Audio for Hearables: Sensing, control, and rendering. IEEE Signal Processing Magazine, 2022, 39, 63-89.	5.6	13
90	Time-Reversal Approach to the Stereophonic Acoustic Echo Cancellation Problem. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 385-395.	3.2	12

#	Article	IF	Citations
91	A study on the frequency-domain Primary-ambient extraction for stereo audio signals. , 2014, , .		12
92	Effect of the audio amplifier's distortion on feedforward active noise control. , 2017, , .		12
93	Bandwidth-efficient recursive pth-order equalization for correcting baseband distortion in parametric loudspeakers. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 706-710.	3.2	11
94	A combined bilateral and binaural active noise control algorithm for closed-back headphones. Applied Acoustics, 2020, 160, 107129.	3.3	11
95	Using empirical wavelet transform to speed up selective filtered active noise control system. Journal of the Acoustical Society of America, 2020, 147, 3490-3501.	1.1	11
96	Fast Adaptive Active Noise Control Based on Modified Model-Agnostic Meta-Learning Algorithm. IEEE Signal Processing Letters, 2021, 28, 593-597.	3.6	11
97	A General Network Architecture for Sound Event Localization and Detection Using Transfer Learning and Recurrent Neural Network. , 2021, , .		11
98	Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. IEEE Internet of Things Journal, 2021, 8, 14308-14321.	8.7	11
99	Comb-partitioned frequency-domain constraint adaptive algorithm for active noise control. Signal Processing, 2021, 188, 108222.	3.7	11
100	Speaker placement for robust virtual audio display system. Electronics Letters, 2000, 36, 683.	1.0	10
101	Analysis of misequalization in a narrowband active noise equalizer system. Journal of Sound and Vibration, 2008, 311, 1438-1446.	3.9	10
102	Analysis and calibration of system errors in steerable parametric loudspeakers. Applied Acoustics, 2012, 73, 1263-1270.	3.3	10
103	Recent applications and challenges on active noise control. , 2013, , .		10
104	Primary-Ambient Extraction Using Ambient Phase Estimation with a Sparsity Constraint. IEEE Signal Processing Letters, 2015, 22, 1127-1131.	3.6	10
105	Primary-Ambient Extraction Using Ambient Spectrum Estimation for Immersive Spatial Audio Reproduction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1431-1444.	5.8	10
106	Constant beamwidth beamformer for difference frequency in parametric array. , 2003, , .		9
107	Localization of acoustic source on solids: A linear predictive coding based algorithm for location template matching. , 2010, , .		9
108	An alternative method to measure the on-axis difference-frequency sound in a parametric loudspeaker without using an acoustic filter. Applied Acoustics, 2012, 73, 1244-1250.	3.3	9

#	Article	IF	Citations
109	A Sequence Matching Network for Polyphonic Sound Event Localization and Detection. , 2020, , .		9
110	Biomarker-Informed Machine Learning Model of Cognitive Fatigue from a Heart Rate Response Perspective. Sensors, 2021, 21, 3843.	3.8	9
111	Strategies for an Acoustical-Hotspot Generation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2005, E88-A, 1739-1746.	0.3	9
112	Development of virtual sound imaging system using triple elevated speakers. IEEE Transactions on Consumer Electronics, 2004, 50, 916-922.	3.6	8
113	Generalized harmonic analysis of Arc-Tangent Square Root (ATSR) nonlinear device for virtual bass system. , 2010, , .		8
114	A systolic FxLMS structure for implementation of feedforward active noise control on FPGA. , 2016, , .		8
115	Fast continuous HRTF acquisition with unconstrained movements of human subjects. , 2016, , .		8
116	Exploiting the Underdetermined System in Multichannel Active Noise Control for Open Windows. Applied Sciences (Switzerland), 2019, 9, 390.	2.5	8
117	Spatial Aliasing Effects in a Steerable Parametric Loudspeaker for Stereophonic Sound Reproduction. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1859-1866.	0.3	8
118	Optimal Penalty Factor for the MOV-FxLMS Algorithm in Active Noise Control System. IEEE Signal Processing Letters, 2022, 29, 85-89.	3.6	8
119	A broadband self-tuning active noise equaliser. Signal Processing, 1997, 62, 251-256.	3.7	7
120	Applying equal-loudness compensation to the adaptive active noise control. Applied Acoustics, 2000, 61, 183-187.	3.3	7
121	A Fast Field Scheme for the Parametric Sound Radiation from Rectangular Aperture Source. Chinese Physics Letters, 2004, 21, 110-113.	3.3	7
122	Novel DORT Method in Non-Well-Resolved Scatterer Case. IEEE Signal Processing Letters, 2008, 15, 705-708.	3.6	7
123	Comparison of different development kits and its suitability in signal processing education. , 2016, , .		7
124	Analysis of Multichannel Virtual Sensing Active Noise Control to Overcome Spatial Correlation and Causality Constraints. , 2019, , .		7
125	Performance analysis on recursive single-sideband amplitude modulation for parametric loudspeakers. , 2010, , .		6
126	Fast arbitrary resizing of images in the discrete cosine transform domain. IET Image Processing, 2011, 5, 73.	2.5	6

#	Article	IF	Citations
127	A preprocessing method to increase high frequency response of a parametric loudspeaker. , 2013, , .		6
128	Hybrid immersive three-dimensional sound reproduction system with steerable parametric loudspeakers. Proceedings of Meetings on Acoustics, 2013, , .	0.3	6
129	Open loop active control of noise through open windows. Proceedings of Meetings on Acoustics, 2016, , .	0.3	6
130	Understanding multiple-input multiple-output active noise control from a perspective of sampling and reconstruction. , 2017, , .		6
131	On algorithms and implementations of a 4-channel active noise canceling window. , 2017, , .		6
132	A hybrid approach to active and passive noise control for open windows. Applied Acoustics, 2019, 155, 338-345.	3.3	6
133	Multiband grid-free compressive beamforming. Mechanical Systems and Signal Processing, 2020, 135, 106425.	8.0	6
134	Automation of binaural headphone audio calibration on an artificial head. MethodsX, 2021, 8, 101288.	1.6	6
135	A Wireless Reference Active Noise Control Headphone Using Coherence Based Selection Technique. , 2021, , .		6
136	A Low-Cost 256-Point FFT Processor for Portable Speech and Audio Applications. , 2007, , .		5
137	VLSI Architectures for Lifting-Based Discrete Wavelet Packet Transform. , 2007, , .		5
138	A lowcomplexity fast converging partial update adaptive algorithm employing variable step-size for acoustic echo cancellation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	5
139	Active noise control for motorcycle helmets. , 2010, , .		5
140	Multi-shift principal component analysis based primary component extraction for spatial audio reproduction. , 2015, , .		5
141	Multiple parallel branch with folding architecture for multichannel filtered-x least mean square algorithm. , 2017, , .		5
142	Multichannel Active Noise Control with Spatial Derivative Constraints to Enlarge the Quiet Zone. , 2020, , .		5
143	Model-Free Control of a Nonlinear ANC System with a SPSA-Based Neural Network Controller. Lecture Notes in Computer Science, 2006, , 1033-1038.	1.3	5
144	Improving Contextual Coherence in Variational Personalized and Empathetic Dialogue Agents. , 2022, , .		5

#	Article	IF	Citations
145	A multidimensional assessment of construction machinery noises based on perceptual attributes and psychoacoustic parameters. Automation in Construction, 2022, 140, 104295.	9.8	5
146	Multivariate FOREX forecasting using artificial neural networks. , 0, , .		4
147	Broadband active noise compressor. IEEE Signal Processing Letters, 1998, 5, 11-14.	3.6	4
148	Elevated speaker projection for digital home entertainment system. IEEE Transactions on Consumer Electronics, 2001, 47, 631-637.	3.6	4
149	Integrated Headsets Using the Adaptive Hybrid Active Noise Control System. , 0, , .		4
150	Fast Arbitrary Resizing of Images in DCT Domain. , 2007, , .		4
151	Harmonic analysis of nonlinear devices for virtual bass system. , 2008, , .		4
152	Integration of Bass Enhancement and Active Noise Control System in Automobile Cabin. Advances in Acoustics and Vibration, 2008, 2008, 1-9.	0.5	4
153	The investigation of localized sound generation using two ultrasound beams. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1282-1287.	3.0	4
154	The DORT solution in acoustic inverse scattering problem of a small elastic scatterer. Ultrasonics, 2010, 50, 829-840.	3.9	4
155	Psychoacoustic hybrid active noise control system. , 2012, , .		4
156	A timbre matching approach to enhance audio quality of psychoacoustic bass enhancement system. , 2013, , .		4
157	Fast and efficient real-time GPU based implementation of wave field synthesis. , 2014, , .		4
158	New feedback active noise control system with improved performance. , 2014, , .		4
159	Psychoacoustic subband active noise control algorithm. , 2017, , .		4
160	Parametric Hear through Equalization for Augmented Reality Audio. , 2019, , .		4
161	Model-Free Iterative Learning Control for Repetitive Impulsive Noise Using FFT. Lecture Notes in Computer Science, 2012, , 461-467.	1.3	4
162	Target-Oriented Acoustic Radiation Generation Technique for Sound Field Control. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 3671-3677.	0.3	4

#	Article	IF	Citations
163	A Multi-Channel Wireless Active Noise Control Headphone With Coherence-Based Weight Determination Algorithm. Journal of Signal Processing Systems, 2022, 94, 811-819.	2.1	4
164	Adaptive Filtering Using Constrained Subband Updates. , 0, , .		3
165	Perceptually lossless coder based on just noticeable distortion profile with subband dct. , 0, , .		3
166	Adaptive Noise Equalizer with Equal-Loudness Compensation. , 0, , .		3
167	Detection and localization of the scatterers via DORT method. , 2007, , .		3
168	Active Noise Control Using a Functional Link Artificial Neural Network with the Simultaneous Perturbation Learning Rule. Shock and Vibration, 2009, 16, 325-334.	0.6	3
169	Synthesis of polynomial-based nonlinear device and harmonic shifting technique for virtual bass system. , 2009, , .		3
170	Versatile and portable DSP platform for learning embedded signal processing. , 2011, , .		3
171	Modeling the directivity of parametric loudspeaker. , 2012, , .		3
172	Fixed-point square roots. , 2012, , .		3
173	Wave Field Synthesis: The Future of Spatial Audio. IEEE Potentials, 2013, 32, 17-23.	0.3	3
174	Development of a steerable stereophonic parametric loudspeaker. , 2014, , .		3
175	Time-Shifting Based Primary-Ambient Extraction for Spatial Audio Reproduction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1576-1588.	5.8	3
176	Individualization of Head-Related Transfer Functions in the Median Plane using Frontal Projection Headphones. AES: Journal of the Audio Engineering Society, 2016, 64, 1026-1041.	1.0	3
177	An Improved Selective Active Noise Control Algorithm Based on Empirical Wavelet Transform. , 2020, , .		3
178	Model-Free Control of Nonlinear Noise Processes Based on C-FLAN. Advances in Intelligent and Soft Computing, 2009, , 535-541.	0.2	3
179	Probably Pleasant? A Neural-Probabilistic Approach to Automatic Masker Selection for Urban Soundscape Augmentation. , 2022, , .		3
180	A Hybrid Approach to Combine Wireless and Earcup Microphones for ANC Headphones with Error Separation Module. , 2022, , .		3

#	Article	IF	Citations
181	Lowering the Sampling Rate: Heart Rate Response during Cognitive Fatigue. Biosensors, 2022, 12, 315.	4.7	3
182	A Novel Approach to Bass Enhancement in Automobile Cabin. , 0, , .		2
183	Radiation Impedance Calculation for Arbitrarily Shaped Piston. Japanese Journal of Applied Physics, 2004, 43, 6274-6277.	1.5	2
184	A Model Predictive Algorithm for Active Control of Nonlinear Noise Processes. Shock and Vibration, 2005, 12, 227-237.	0.6	2
185	Initial value independent optimisation for flat-top power pattern synthesis using non-uniform linear arrays. Electronics Letters, 2005, 41, 677.	1.0	2
186	Application of Radiation Mode in Desired Sound Field Generation Using Loudspeaker Array. , 0, , .		2
187	Practical implementation of subband DCT based coder. , 2005, , .		2
188	Experimental Investigation of Active Vibration Control Using a Filtered-Error Neural Network and Piezoelectric Actuators. Lecture Notes in Computer Science, 2005, , 161-166.	1.3	2
189	Fast image resizing in discrete cosine transform domain with spatial relationship between DCT block and its sub-blocks. , 2008, , .		2
190	Selective focusing with numerical technique of time reversal operator decomposition. , 2008, , .		2
191	Proportionate subband adaptive filtering. , 2008, , .		2
192	Calibration of parametric acoustic array. , 2011, , .		2
193	A vehicular noise surveillance system integrated with vehicle type classification. , 2013, , .		2
194	Steerable parametric loudspeaker with preprocessing methods. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
195	Modeling distance-dependent individual head-related transfer functions in the horizontal plane using frontal projection headphones. Journal of the Acoustical Society of America, 2015, 138, 150-171.	1.1	2
196	Perceptual Quality Improvement and Assessment for Virtual Bass Systems. AES: Journal of the Audio Engineering Society, 2015, 63, 900-913.	1.0	2
197	Applying primary ambient extraction for immersive spatial audio reproduction. , 2015, , .		2
198	Fast HRFT measurement system with unconstrained head movements for 3D audio in virtual and augmented reality applications. , 2017, , .		2

#	Article	IF	Citations
199	Localization of harmonic source using a single moving sensor of known trajectory. , 2017, , .		2
200	A Fast Algorithm for the Sound Projection Using Multiple Sources. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2005, E88-A, 1765-1766.	0.3	2
201	Comparative analysis between noncanonical LMS and LMS adaptive filtering. Electronics Letters, 1991, 27, 947-950.	1.0	2
202	DLVGen: A Dual Latent Variable Approach to Personalized Dialogue Generation. , 2022, , .		2
203	SALSA-Lite: A Fast and Effective Feature for Polyphonic Sound Event Localization and Detection with Microphone Arrays. , 2022, , .		2
204	End-to-End Complex-Valued Multidilated Convolutional Neural Network for Joint Acoustic Echo Cancellation and Noise Suppression. , 2022, , .		2
205	Active noise compression systems. Circuits, Systems, and Signal Processing, 1998, 17, 667-682.	2.0	1
206	Application of virtual bass in audio crosstalk cancellation. Electronics Letters, 2000, 36, 1500.	1.0	1
207	Integration of virtual bass reproduction in active noise control headsets. , 0, , .		1
208	Bass enhancement for automobile multimedia system using active noise equalizer. , 0, , .		1
209	Implementation of dynamic voltage and frequency scaling on Blackfin processors. , 2005, , .		1
210	Analysis of Nonlinear Residual Echo Suppressors for Telecommunications. , 0, , .		1
211	Efficient Algorithm and Architecture of Critical-Band Transform for Low-Power Speech Applications. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	1
212	Scalable image coder for mobile device. , 2007, , .		1
213	Green's Function Estimation in Homogeneous and Scattering Medium for Time Reversal Signal Processing (TRSP) Communication. , 2007, , .		1
214	Preprocessing techniques for parametric loudspeakers. , 2008, , .		1
215	Weighted least squares DORT method in selective focusing. , 2008, , .		1
216	Zero Padding Multistatic Data Matrix and Parameter Optimisation of DORT Method in Selective Focusing. HKIE Transactions, 2009, 16, 29-37.	0.1	1

#	Article	IF	Citations
217	Decomposition of time reversal operator method in a small elastic scatterer. , 2009, , .		1
218	Perceptually tuned subband coder for JPEG. Journal of Real-Time Image Processing, 2011, 6, 101-115.	3.5	1
219	Active Transient Vibration Control Using a Novel Repetitive Algorithm. Applied Mechanics and Materials, 0, 160, 258-262.	0.2	1
220	Inverse system design based on the Volterra modeling of a parametric loudspeaker system. , 2012, , .		1
221	An affordable and attachable electronic device for the blind. , 2015, , .		1
222	A hybrid speaker array-headphone system for immersive 3D audio reproduction. , 2015, , .		1
223	Singapore Soundscape Site Selection Survey (S5): Identification of Characteristic Soundscapes of Singapore via Weighted k-Means Clustering. Sustainability, 2022, 14, 7485.	3.2	1
224	Efficient VLSI Architecture of Lifting-Based Wavelet Packet Transform for Audio and Speech Applications. , 0, , .		0
225	Stability analysis of the noncanonical LMS (NCLMS) algorithm. , 1992, , .		0
226	Stability bound for noncanonical LMS. Electronics Letters, 1992, 28, 504.	1.0	0
227	Wavelet packet decomposition for spatial sound conditioning. Electronics Letters, 1999, 35, 1821.	1.0	0
228	Spatial speech coding for multi-teleconferencing. , 0, , .		0
229	Method for improving performance of 3D audio system. , 0, , .		0
230	Elevated speaker projection for digital home entertainment system. , 0, , .		0
231	Observation on the robust performance of elevated sound reproduction system. , 0, , .		0
232	Time-domain lifted wavelet collocation method for modeling nonlinear wave propagation. Acoustics Research Letters Online: ARLO, 2002, 3, 124-129.	0.7	0
233	A novel method to design FIR filters. , 0, , .		0
234	Virtual sound imaging system using elevated speaker projection. , 0, , .		0

#	Article	IF	Citations
235	A Simplified Algorithm for Impedance Calculation of Arbitrarily Shaped Radiators. Chinese Physics Letters, 2005, 22, 2459-2461.	3.3	0
236	Location awareness for on-the-go equipment access in a smart bio-laboratory. , 0, , .		0
237	Reconfigurable Context-Sensitive Bio-Bridge Middleware for Smart Bio-Laboratories. , 0, , .		0
238	New Equalizing Scheme of Active Noise Equalization System in Automobile Cabin. , 2007, , .		0
239	Perceptually tuned subband coder with region of interest. , 2007, , .		0
240	<title>A design of real time image capturing and processing system using Texas Instrument's processor</title>. Proceedings of SPIE, 2007, , .	0.8	0
241	Analysis of active noise equalization system with imperfect secondary path estimation. , 2008, , .		0
242	Intelligent Audio, Speech, and Music Processing Applications. Eurasip Journal on Audio, Speech, and Music Processing, 2008, 2008, 1-2.	2.1	0
243	Welcome message from program chairs. , 2011, , .		0
244	Analysis on precise intermodulation product computing technique and reduction of computational load. , 2012, , .		0
245	Step size bound for narrowband feedback active noise control. , 2013, , .		0
246	Study on the use of error term in parallel-form narrowband feedback active noise control systems. , 2014, , .		0
247	A virtual bass system with improved overflow control. , 2015, , .		0
248	An Objective Analysis Method for Perceptual Quality of a Virtual Bass System. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, , 1-1.	5.8	0
249	Efficacy of a parametric assistive listening system to enhance the audibility and intelligibility of speech. Journal of Laryngology and Otology, 2016, 130, S175-S175.	0.8	0
250	Welcome message from general co-chairs. , 2017, , .		0
251	Guest Editors' Note—Special Issue on Spatial Audio. Applied Sciences (Switzerland), 2017, 7, 788.	2.5	0
252	Grid-free compressive beamforming using a single moving sensor of known trajectory. , 2017, , .		0

#	Article	IF	Citations
253	On the Development of an Open-Source Learning Management System for Engineering Students. , 0, , .		0