

# Xiaodong Li

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

589  
citations

759233

12  
h-index

713466

21  
g-index

55  
all docs

55  
docs citations

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times ranked

278  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two Heads are Better Than One: A Two-Stage Complex Spectral Mapping Approach for Monaural Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1829-1843.	5.8	73
2	Glance and gaze: A collaborative learning framework for single-channel speech enhancement. Applied Acoustics, 2022, 187, 108499.	3.3	57
3	On the importance of power compression and phase estimation in monaural speech dereverberation. JASA Express Letters, 2021, 1, .	1.1	49
4	Speech enhancement using progressive learning-based convolutional recurrent neural network. Applied Acoustics, 2020, 166, 107347.	3.3	48
5	Subwavelength imaging through spoof surface acoustic waves on a two-dimensional structured rigid surface. Applied Physics Letters, 2013, 103, .	3.3	34
6	ICASSP 2021 Deep Noise Suppression Challenge: Decoupling Magnitude and Phase Optimization with a Two-Stage Deep Network. , 2021, , .		29
7	Estimation of low-altitude moving target trajectory using single acoustic array. Journal of the Acoustical Society of America, 2016, 139, 1848-1858.	1.1	21
8	Quantized Kalman Filter Tracking in Directional Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 871-883.	5.8	21
9	Active Headrest with Robust Performance against Head Movement. Journal of Low Frequency Noise Vibration and Active Control, 2015, 34, 233-250.	2.9	19
10	A Recursive Network with Dynamic Attention for Monaural Speech Enhancement. , 0, , .		19
11	Embedding and Beamforming: All-Neural Causal Beamformer for Multichannel Speech Enhancement. , 2022, , .		17
12	A cepstrum-based preprocessing and postprocessing for speech enhancement in adverse environments. Applied Acoustics, 2013, 74, 1458-1462.	3.3	16
13	Multi-Source Localization Using Time of Arrival Self-Clustering Method in Wireless Sensor Networks. IEEE Access, 2019, 7, 82110-82121.	4.2	16
14	Statistical Analysis of the Multichannel Wiener Filter Using a Bivariate Normal Distribution for Sample Covariance Matrices. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 951-966.	5.8	12
15	A temporal-spectral generative adversarial network based end-to-end packet loss concealment for wideband speech transmission. Journal of the Acoustical Society of America, 2021, 150, 2577-2588.	1.1	12
16	On Generalized Auto-Spectral Coherence Function and Its Applications to Signal Detection. IEEE Signal Processing Letters, 2014, 21, 559-563.	3.6	11
17	ICASSP 2021 Acoustic Echo Cancellation Challenge: Integrated Adaptive Echo Cancellation with Time Alignment and Deep Learning-Based Residual Echo Plus Noise Suppression. , 2021, , .		11
18	A Statistical Analysis of Two-Channel Post-Filter Estimators in Isotropic Noise Fields. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 336-342.	3.2	10

#	ARTICLE	IF	CITATIONS
19	A Constrained MMSE LP Residual Estimator for Speech Dereverberation in Noisy Environments. IEEE Signal Processing Letters, 2014, 21, 1462-1466.	3.6	10
20	Deep learning-based stereophonic acoustic echo suppression without decorrelation. Journal of the Acoustical Society of America, 2021, 150, 816-829.	1.1	9
21	A Supervised Speech Enhancement Approach with Residual Noise Control for Voice Communication. Applied Sciences (Switzerland), 2020, 10, 2894.	2.5	7
22	Taylor, Can You Hear Me Now? A Taylor-Unfolding Framework for Monaural Speech Enhancement. , 2022, , .		7
23	Equalization of loudspeaker response using balanced model truncation. Journal of the Acoustical Society of America, 2015, 137, EL241-EL247.	1.1	6
24	A multi-tone active noise control system with a simplified local on-line secondary-path modeling. Journal of the Acoustical Society of America, 2018, 144, EL515-EL521.	1.1	6
25	Joint estimation of binaural distance and azimuth by exploiting deep neural networks. Journal of the Acoustical Society of America, 2020, 147, 2625-2635.	1.1	6
26	Measurement and modeling of the mechanical impedance of human mastoid and condyle. Journal of the Acoustical Society of America, 2022, 151, 1434-1448.	1.1	6
27	Filtering and Refining: A Collaborative-Style Framework for Single-Channel Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 2156-2172.	5.8	6
28	Wideband DOA estimation based on block FOCUSS with limited samples. , 2013, , .		5
29	Wideband Multitarget Tracking Based on Dynamic Bayesian Network Learning in an Acoustic Sensor Array Network. IEEE Internet of Things Journal, 2022, 9, 4769-4787.	8.7	5
30	Bandwidth extension for speech acquired by laser Doppler vibrometer with an auxiliary microphone. , 2015, , .		4
31	Off-Grid DOA Estimation Based on Circularly Fully Convolutional Networks (CFCN) Using Space-Frequency Pseudo-Spectrum. Sensors, 2021, 21, 2767.	3.8	4
32	Distributed node-specific block-diagonal LCMV beamforming in wireless acoustic sensor networks. Signal Processing, 2021, 185, 108085.	3.7	4
33	Noise-robust blind reverberation time estimation using noise-aware time-frequency masking. Measurement: Journal of the International Measurement Confederation, 2022, 192, 110901.	5.0	4
34	A separation and interaction framework for causal multi-channel speech enhancement. , 2022, 126, 103519.		4
35	Analysis of Additional Stable Gain by Frequency Shifting for Acoustic Feedback Suppression using Statistical Room Acoustics. IEEE Signal Processing Letters, 2016, 23, 159-163.	3.6	3
36	Learning to Inference with Early Exit in the Progressive Speech Enhancement. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	A Neural Beamspace-Domain Filter for Real-Time Multi-Channel Speech Enhancement. <i>Symmetry</i> , 2022, 14, 1081.	2.2	3
38	An individualization approach for head-related transfer function in arbitrary directions based on deep learning. <i>JASA Express Letters</i> , 2022, 2, .	1.1	3
39	Two-stage optimisation algorithm for adaptive IIR notch filter. <i>Electronics Letters</i> , 2014, 50, 985-987.	1.0	2
40	Investigation of an MAA Test With Virtual Sound Synthesis. <i>Frontiers in Psychology</i> , 2021, 12, 656052.	2.1	2
41	Double talk protection of acoustic echo cancellation based on weighted-sum NLMS algorithm. , 0, , .		1
42	Feature Extraction Using Histogram Entropies of Euclidean Distances for Vehicle Classification. , 2006, , .		1
43	Robustness analysis of time-domain and frequency-domain adaptive null-forming schemes. , 2011, , .		1
44	A modified power-level-difference-based noise reduction for dual-microphone headsets. , 2013, , .		1
45	A Low-Complexity Volterra Filtered-Error LMS Algorithm with a Kronecker Product Decomposition. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9637.	2.5	1
46	An EME blind source separation algorithm based on generalized exponential function. <i>Journal of Electronics</i> , 2008, 25, 262-267.	0.2	0
47	Optimal smoothing for microphone array post-filtering under a combined deterministic-stochastic hybrid model. <i>Journal of Electronics</i> , 2011, 28, 524-530.	0.2	0
48	An improved wavelet based shock wave detector. , 2015, , .		0
49	Element stage processing system for microphone array calibration. <i>Acoustical Science and Technology</i> , 2004, 25, 112-114.	0.5	0
50	Multitarget Tracking Based on Dynamic Bayesian Network With Reparameterized Approximate Variational Inference. <i>IEEE Internet of Things Journal</i> , 2022, 9, 11542-11559.	8.7	0