

DeLiang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

288
papers

16,927
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17429

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109
g-index

291
all docs

291
docs citations

291
times ranked

4614
citing authors

#	ARTICLE	IF	CITATIONS
1	Supervised Speech Separation Based on Deep Learning: An Overview. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1702-1726.	4.0	870
2	On Training Targets for Supervised Speech Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1849-1858.	4.0	758
3	Complex Ratio Masking for Monaural Speech Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 483-492.	4.0	495
4	Computational Auditory Scene Analysis. , 2006, , .		452
5	On Ideal Binary Mask As the Computational Goal of Auditory Scene Analysis. , 2005, , 181-197.		436
6	Ideal ratio mask estimation using deep neural networks for robust speech recognition. , 2013, , .		351
7	Towards Scaling Up Classification-Based Speech Separation. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1381-1390.	3.8	348
8	Global competition and local cooperation in a network of neural oscillators. Physica D: Nonlinear Phenomena, 1995, 81, 148-176.	1.3	347
9	Isolating the energetic component of speech-on-speech masking with ideal time-frequency segregation. Journal of the Acoustical Society of America, 2006, 120, 4007-4018.	0.5	333
10	Speech segregation based on sound localization. Journal of the Acoustical Society of America, 2003, 114, 2236-2252.	0.5	327
11	Monaural Speech Segregation Based on Pitch Tracking and Amplitude Modulation. IEEE Transactions on Neural Networks, 2004, 15, 1135-1150.	4.8	308
12	Image Segmentation Based on Oscillatory Correlation. Neural Computation, 1997, 9, 805-836.	1.3	260
13	Locally excitatory globally inhibitory oscillator networks. IEEE Transactions on Neural Networks, 1995, 6, 283-286.	4.8	241
14	A Convolutional Recurrent Neural Network for Real-Time Speech Enhancement. , 0, , .		239
15	Pattern Segmentation in Associative Memory. Neural Computation, 1990, 2, 94-106.	1.3	207
16	A multipitch tracking algorithm for noisy speech. IEEE Transactions on Speech and Audio Processing, 2003, 11, 229-241.	2.0	194
17	TCNN: Temporal Convolutional Neural Network for Real-time Speech Enhancement in the Time Domain. , 2019, , .		192
18	A Tandem Algorithm for Pitch Estimation and Voiced Speech Segregation. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 2067-2079.	3.8	188

#	ARTICLE	IF	CITATIONS
19	Binary and ratio time-frequency masks for robust speech recognition. <i>Speech Communication</i> , 2006, 48, 1486-1501.	1.6	186
20	Learning Spectral Mapping for Speech Dereverberation and Denoising. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015, 23, 982-992.	4.0	185
21	Long short-term memory for speaker generalization in supervised speech separation. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 4705-4714.	0.5	178
22	A New Framework for CNN-Based Speech Enhancement in the Time Domain. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 1179-1188.	4.0	176
23	An algorithm to improve speech recognition in noise for hearing-impaired listeners. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3029-3038.	0.5	175
24	Learning Complex Spectral Mapping With Gated Convolutional Recurrent Networks for Monaural Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020, 28, 380-390.	4.0	174
25	A Deep Ensemble Learning Method for Monaural Speech Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016, 24, 967-977.	4.0	169
26	The role of priming in conjunctive visual search. <i>Cognition</i> , 2002, 85, 37-52.	1.1	167
27	Exploring Monaural Features for Classification-Based Speech Segregation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 270-279.	3.8	162
28	Texture classification using spectral histograms. <i>IEEE Transactions on Image Processing</i> , 2003, 12, 661-670.	6.0	160
29	A two-stage algorithm for one-microphone reverberant speech enhancement. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2006, 14, 774-784.	3.8	158
30	Speech intelligibility in background noise with ideal binary time-frequency masking. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 2336-2347.	0.5	156
31	Emergent synchrony in locally coupled neural oscillators. <i>IEEE Transactions on Neural Networks</i> , 1995, 6, 941-948.	4.8	153
32	Time-Frequency Masking in the Complex Domain for Speech Dereverberation and Denoising. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017, 25, 1492-1501.	4.0	150
33	Large-scale training to increase speech intelligibility for hearing-impaired listeners in novel noises. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 2604-2612.	0.5	139
34	CASA-Based Robust Speaker Identification. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012, 20, 1608-1616.	3.8	136
35	Role of mask pattern in intelligibility of ideal binary-masked noisy speech. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 1415-1426.	0.5	135
36	A Feature Study for Classification-Based Speech Separation at Low Signal-to-Noise Ratios. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014, 22, 1993-2002.	4.0	132

#	ARTICLE	IF	CITATIONS
37	Time-Frequency Masking for Speech Separation and Its Potential for Hearing Aid Design. Trends in Amplification, 2008, 12, 332-353.	2.4	130
38	Efficient visual search without top-down or bottom-up guidance. Perception & Psychophysics, 2005, 67, 239-253.	2.3	128
39	Separation of Singing Voice From Music Accompaniment for Monaural Recordings. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1475-1487.	3.8	122
40	Analyzing noise robustness of MFCC and GFCC features in speaker identification. , 2013, , .		119
41	Gated Residual Networks With Dilated Convolutions for Monaural Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 189-198.	4.0	117
42	On the optimality of ideal binary time-frequency masks. Speech Communication, 2009, 51, 230-239.	1.6	113
43	Divide and Conquer: A Deep CASA Approach to Talker-Independent Monaural Speaker Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 2092-2102.	4.0	110
44	Boosting Contextual Information for Deep Neural Network Based Voice Activity Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 252-264.	4.0	104
45	A Joint Training Framework for Robust Automatic Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 796-806.	4.0	100
46	Complex Spectral Mapping for Single- and Multi-Channel Speech Enhancement and Robust ASR. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1778-1787.	4.0	100
47	Investigation of Speech Separation as a Front-End for Noise Robust Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 826-835.	4.0	99
48	Remote Sensing Image Segmentation by Combining Spectral and Texture Features. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 16-24.	2.7	99
49	Auditory Segmentation Based on Onset and Offset Analysis. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 396-405.	3.8	98
50	The Time Dimension for Scene Analysis. IEEE Transactions on Neural Networks, 2005, 16, 1401-1426.	4.8	96
51	Image and Texture Segmentation Using Local Spectral Histograms. IEEE Transactions on Image Processing, 2006, 15, 3066-3077.	6.0	96
52	Binaural Classification for Reverberant Speech Segregation Using Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 2112-2121.	4.0	96
53	Binaural Localization of Multiple Sources in Reverberant and Noisy Environments. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1503-1512.	3.8	94
54	Dense CNN With Self-Attention for Time-Domain Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1270-1279.	4.0	94

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55	A computational auditory scene analysis system for speech segregation and robust speech recognition. <i>Computer Speech and Language</i> , 2010, 24, 77-93.	2.9	93
56	A binaural processor for missing data speech recognition in the presence of noise and small-room reverberation. <i>Speech Communication</i> , 2004, 43, 361-378.	1.6	91
57	Robust Speaker Identification in Noisy and Reverberant Conditions. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014, 22, 836-845.	4.0	91
58	An auditory-based feature for robust speech recognition. , 2009, , .		90
59	Synchronization and desynchronization in a network of locally coupled Wilson-Cowan oscillators. <i>IEEE Transactions on Neural Networks</i> , 1996, 7, 541-554.	4.8	89
60	Deep learning reinvents the hearing aid. <i>IEEE Spectrum</i> , 2017, 54, 32-37.	0.5	89
61	Deep Learning Based Binaural Speech Separation in Reverberant Environments. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017, 25, 1075-1084.	4.0	89
62	Complex Spectral Mapping with a Convolutional Recurrent Network for Monaural Speech Enhancement. , 2019, , .		89
63	A dynamically coupled neural oscillator network for image segmentation. <i>Neural Networks</i> , 2002, 15, 423-439.	3.3	84
64	End-to-End Speech Separation with Unfolded Iterative Phase Reconstruction. , 0, , .		83
65	Combining Spectral and Spatial Features for Deep Learning Based Blind Speaker Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 457-468.	4.0	81
66	Factorization-Based Texture Segmentation. <i>IEEE Transactions on Image Processing</i> , 2015, 24, 3488-3497.	6.0	79
67	A classification based approach to speech segregation. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3475-3483.	0.5	77
68	Robust Speaker Localization Guided by Deep Learning-Based Time-Frequency Masking. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 178-188.	4.0	77
69	Two-Microphone Separation of Speech Mixtures. <i>IEEE Transactions on Neural Networks</i> , 2008, 19, 475-492.	4.8	75
70	Neural Network Based Pitch Tracking in Very Noisy Speech. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014, 22, 2158-2168.	4.0	71
71	Weight adaptation and oscillatory correlation for image segmentation. <i>IEEE Transactions on Neural Networks</i> , 2000, 11, 1106-1123.	4.8	70
72	An algorithm to increase speech intelligibility for hearing-impaired listeners in novel segments of the same noise type. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 1660-1669.	0.5	70

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73	Joint noise adaptive training for robust automatic speech recognition. , 2014, , .		69
74	Two-Stage Deep Learning for Noisy-Reverberant Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 53-62.	4.0	69
75	Binaural Tracking of Multiple Moving Sources. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 728-739.	3.8	67
76	A deep neural network for time-domain signal reconstruction. , 2015, , .		66
77	A spectral histogram model for texton modeling and texture discrimination. Vision Research, 2002, 42, 2617-2634.	0.7	63
78	A Supervised Learning Approach to Monaural Segregation of Reverberant Speech. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 625-638.	3.8	60
79	HMM-Based Multipitch Tracking for Noisy and Reverberant Speech. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1091-1102.	3.8	58
80	Separation of Speech by Computational Auditory Scene Analysis. , 2005, , 371-402.		57
81	Features for Masking-Based Monaural Speech Separation in Reverberant Conditions. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1085-1094.	4.0	57
82	An Unsupervised Approach to Cochannel Speech Separation. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 122-131.	3.8	56
83	Densely Connected Neural Network with Dilated Convolutions for Real-Time Speech Enhancement in The Time Domain. , 2020, , .		56
84	Segregation of unvoiced speech from nonspeech interference. Journal of the Acoustical Society of America, 2008, 124, 1306-1319.	0.5	55
85	Learning spectral mapping for speech dereverberation. , 2014, , .		55
86	Model-based sequential organization in cochannel speech. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 289-298.	3.8	54
87	Transforming Binary Uncertainties for Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2130-2140.	3.8	54
88	Incorporating Auditory Feature Uncertainties in Robust Speaker Identification. , 2007, , .		53
89	On Adversarial Training and Loss Functions for Speech Enhancement. , 2018, , .		53
90	Relaxation oscillators with time delay coupling. Physica D: Nonlinear Phenomena, 1998, 111, 151-178.	1.3	52

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91	LEGION-Based Automatic Road Extraction From Satellite Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4528-4538.	2.7	52
92	Deep Learning Based Phase Reconstruction for Speaker Separation: A Trigonometric Perspective. , 2019, , .		52
93	Deep Learning Based Target Cancellation for Speech Dereverberation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 941-950.	4.0	52
94	A Tandem Algorithm for Singing Pitch Extraction and Voice Separation From Music Accompaniment. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1482-1491.	3.8	51
95	Monaural Speech Dereverberation Using Temporal Convolutional Networks With Self Attention. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1598-1607.	4.0	51
96	Binaural segregation in multisource reverberant environments. Journal of the Acoustical Society of America, 2006, 120, 4040-4051.	0.5	50
97	Complex ratio masking for joint enhancement of magnitude and phase. , 2016, , .		50
98	Multitalker speech perception with ideal time-frequency segregation: Effects of voice characteristics and number of talkers. Journal of the Acoustical Society of America, 2009, 125, 4006-4022.	0.5	49
99	Deep ANC: A deep learning approach to active noise control. Neural Networks, 2021, 141, 1-10.	3.3	49
100	Robust speaker identification using auditory features and computational auditory scene analysis. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	45
101	DNN-based enhancement of noisy and reverberant speech. , 2016, , .		45
102	A New Framework for Supervised Speech Enhancement in the Time Domain. , 0, , .		45
103	Speech perception of noise with binary gains. Journal of the Acoustical Society of America, 2008, 124, 2303-2307.	0.5	43
104	Unvoiced Speech Segregation From Nonspeech Interference via CASA and Spectral Subtraction. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1600-1609.	3.8	43
105	Pitch-based monaural segregation of reverberant speech. Journal of the Acoustical Society of America, 2006, 120, 458-469.	0.5	42
106	A speech enhancement algorithm by iterating single- and multi-microphone processing and its application to robust ASR. , 2017, , .		42
107	Improving robustness of deep neural network acoustic models via speech separation and joint adaptive training. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 23, 1-1.	4.0	40
108	Towards Model Compression for Deep Learning Based Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1785-1794.	4.0	40

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109	An oscillatory correlation model of auditory streaming. <i>Cognitive Neurodynamics</i> , 2008, 2, 7-19.	2.3	37
110	Multi-microphone Complex Spectral Mapping for Utterance-wise and Continuous Speech Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021, 29, 2001-2014.	4.0	37
111	Robust Speaker Recognition Based on Single-Channel and Multi-Channel Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020, 28, 1293-1302.	4.0	36
112	Motion segmentation based on motion/brightness integration and oscillatory correlation. <i>IEEE Transactions on Neural Networks</i> , 2000, 11, 935-947.	4.8	35
113	Monaural Musical Sound Separation Based on Pitch and Common Amplitude Modulation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009, 17, 1361-1371.	3.8	34
114	Reconstruction techniques for improving the perceptual quality of binary masked speech. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 892-902.	0.5	34
115	Multi-Microphone Complex Spectral Mapping for Speech Dereverberation. , 2020, , .		34
116	A schema-based model for phonemic restoration. <i>Speech Communication</i> , 2005, 45, 63-87.	1.6	33
117	A Supervised Learning Approach to Monaural Segregation of Reverberant Speech. , 2007, , .		33
118	A Direct Masking Approach to Robust ASR. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 1993-2005.	3.8	33
119	An algorithm to increase intelligibility for hearing-impaired listeners in the presence of a competing talker. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 4230-4239.	0.5	33
120	On Cross-Corpus Generalization of Deep Learning Based Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020, 28, 2489-2499.	4.0	33
121	Synchronization in Relaxation Oscillator Networks with Conduction Delays. <i>Neural Computation</i> , 2001, 13, 1003-1021.	1.3	31
122	Binaural Detection, Localization, and Segregation in Reverberant Environments Based on Joint Pitch and Azimuth Cues. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 806-815.	3.8	30
123	A deep learning algorithm to increase intelligibility for hearing-impaired listeners in the presence of a competing talker and reverberation. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 1378-1388.	0.5	29
124	Gated Residual Networks with Dilated Convolutions for Supervised Speech Separation. , 2018, , .		28
125	A deep learning based segregation algorithm to increase speech intelligibility for hearing-impaired listeners in reverberant-noisy conditions. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 1627-1637.	0.5	27
126	An SVM based classification approach to speech separation. , 2011, , .		26

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127	A CASA-Based System for Long-Term SNR Estimation. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2518-2527.	3.8	26
128	A two-stage algorithm for noisy and reverberant speech enhancement. , 2017, , .		26
129	Primitive Auditory Segregation Based on Oscillatory Correlation. Cognitive Science, 1996, 20, 409-456.	0.8	25
130	Monaural speech segregation based on pitch tracking and amplitude modulation. , 2002, , .		25
131	Scene analysis by integrating primitive segmentation and associative memory. IEEE Transactions on Systems, Man, and Cybernetics, 2002, 32, 254-268.	5.5	25
132	Selecting salient objects in real scenes: An oscillatory correlation model. Neural Networks, 2011, 24, 54-64.	3.3	25
133	Speech-cue transmission by an algorithm to increase consonant recognition in noise for hearing-impaired listeners. Journal of the Acoustical Society of America, 2014, 136, 3325-3336.	0.5	25
134	Primitive auditory segregation based on oscillatory correlation. Cognitive Science, 1996, 20, 409-456.	0.8	25
135	Modelling the perceptual segregation of double vowels with a network of neural oscillators. Neural Networks, 1997, 10, 1547-1558.	3.3	24
136	A multistage approach to blind separation of convolutive speech mixtures. Speech Communication, 2011, 53, 524-539.	1.6	24
137	Noise perturbation for supervised speech separation. Speech Communication, 2016, 78, 1-10.	1.6	24
138	Neural Spectrospatial Filtering. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 605-621.	4.0	24
139	A Neural Model of Synaptic Plasticity Underlying Short-term and Long-term Habituation. Adaptive Behavior, 1993, 2, 111-129.	1.1	23
140	Sequential Organization of Speech in Reverberant Environments by Integrating Monaural Grouping and Binaural Localization. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1856-1866.	3.8	23
141	Robust speech recognition by integrating speech separation and hypothesis testing. Speech Communication, 2010, 52, 72-81.	1.6	23
142	Bridging the Gap Between Monaural Speech Enhancement and Recognition With Distortion-Independent Acoustic Modeling. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 39-48.	4.0	23
143	Co-channel speaker identification using usable speech extraction based on multi-pitch tracking. , 0, , .		22
144	An iterative model-based approach to cochannel speech separation. Eurasip Journal on Audio, Speech, and Music Processing, 2013, 2013, .	1.3	22

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145	Towards Robust Speech Super-Resolution. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2058-2066.	4.0	22
146	Modeling the dishabituation hierarchy: The role of the primordial hippocampus. Biological Cybernetics, 1992, 67, 535-544.	0.6	21
147	The role of binary mask patterns in automatic speech recognition in background noise. Journal of the Acoustical Society of America, 2013, 133, 3083-3093.	0.5	21
148	Impact of phase estimation on single-channel speech separation based on time-frequency masking. Journal of the Acoustical Society of America, 2017, 141, 4668-4679.	0.5	21
149	A structure-preserving training target for supervised speech separation. , 2014, , .		20
150	Robust speaker identification in noisy and reverberant conditions. , 2014, , .		20
151	Estimating nonnegative matrix model activations with deep neural networks to increase perceptual speech quality. Journal of the Acoustical Society of America, 2015, 138, 1399-1407.	0.5	20
152	Phoneme-specific speech separation. , 2016, , .		20
153	Recurrent deep stacking networks for supervised speech separation. , 2017, , .		20
154	Long Short-Term Memory for Speaker Generalization in Supervised Speech Separation. , 0, , .		20
155	Self-Attending RNN for Speech Enhancement to Improve Cross-Corpus Generalization. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1374-1385.	4.0	20
156	On Spatial Features for Supervised Speech Separation and its Application to Beamforming and Robust ASR. , 2018, , .		19
157	Time-Frequency Masking Based Online Speech Enhancement with Multi-Channel Data Using Convolutional Neural Networks. , 2018, , .		19
158	Exploring Deep Complex Networks for Complex Spectrogram Enhancement. , 2019, , .		19
159	Deep Learning Based Real-Time Speech Enhancement for Dual-Microphone Mobile Phones. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1853-1863.	4.0	19
160	A multi-pitch tracking algorithm for noisy speech. , 2002, , .		18
161	Binaural sound segregation for multisource reverberant environments. , 0, , .		18
162	A Casa Approach to Deep Learning Based Speaker-Independent Co-Channel Speech Separation. , 2018, , .		18

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163	Modeling Global Synchrony in the Visual Cortex by Locally Coupled Neural Oscillators. , 1994, , 109-114.		18
164	Synchronization Rates in Classes of Relaxation Oscillators. IEEE Transactions on Neural Networks, 2004, 15, 1027-1038.	4.8	17
165	Late Reverberation Suppression Using Recurrent Neural Networks with Long Short-Term Memory. , 2018, , .		17
166	Deep Learning for Talker-Dependent Reverberant Speaker Separation: An Empirical Study. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1839-1848.	4.0	17
167	A model for multitalker speech perception. Journal of the Acoustical Society of America, 2008, 124, 3213-3224.	0.5	16
168	Sequential organization of speech in computational auditory scene analysis. Speech Communication, 2009, 51, 657-667.	1.6	16
169	Towards Generalizing Classification Based Speech Separation. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 168-177.	3.8	16
170	Mask Weighted Stft Ratios for Relative Transfer Function Estimation and ITS Application to Robust ASR. , 2018, , .		15
171	Speech segregation based on pitch tracking and amplitude modulation. , 0, , .		14
172	Image segmentation using local spectral histograms and linear regression. Pattern Recognition Letters, 2012, 33, 615-622.	2.6	14
173	Neural networks for supervised pitch tracking in noise. , 2014, , .		14
174	Speech segregation based on sound localization. , 0, , .		13
175	Robust speech recognition from binary masks. Journal of the Acoustical Society of America, 2010, 128, EL217-EL222.	0.5	13
176	Robust speaker identification using a CASA front-end. , 2011, , .		13
177	Unsupervised speaker adaptation of batch normalized acoustic models for robust ASR. , 2017, , .		13
178	Causal Deep CASA for Monaural Talker-Independent Speaker Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2109-2118.	4.0	13
179	Time-Frequency Loss for CNN Based Speech Super-Resolution. , 2020, , .		13
180	An effectively causal deep learning algorithm to increase intelligibility in untrained noises for hearing-impaired listeners. Journal of the Acoustical Society of America, 2021, 149, 3943-3953.	0.5	13

#	ARTICLE	IF	CITATIONS
181	Improving Noise Robustness of Contrastive Speech Representation Learning with Speech Reconstruction. , 2022, , .		13
182	Configurational pattern discrimination responsible for dishabituation in common toads Bufo bufo (L.): Behavioral tests of the predictions of a neural model. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1992, 170, 317-25.	0.7	12
183	Perceiving geometric patterns: from spirals to inside-outside relations. IEEE Transactions on Neural Networks, 2001, 12, 1084-1102.	4.8	12
184	A trend estimation algorithm for singing pitch detection in musical recordings. , 2011, , .		12
185	Deep Casa for Talker-independent Monaural Speech Separation. , 2020, , .		12
186	Learning Complex Spectral Mapping for Speech Enhancement with Improved Cross-Corpus Generalization. , 0, , .		12
187	Extraction of hydrographic regions from remote sensing images using an oscillator network with weight adaptation. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 207-211.	2.7	11
188	A one-microphone algorithm for reverberant speech enhancement. , 0, , .		11
189	Musical Sound Separation Using Pitch-Based Labeling and Binary Time-Frequency Masking. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	11
190	A multistage approach for blind separation of convolutive speech mixtures. , 2009, , .		11
191	Speaker-dependent multipitch tracking using deep neural networks. Journal of the Acoustical Society of America, 2017, 141, 710-721.	0.5	11
192	Neural Cascade Architecture With Triple-Domain Loss for Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 734-743.	4.0	11
193	TPARN: Triple-Path Attentive Recurrent Network for Time-Domain Multichannel Speech Enhancement. , 2022, , .		11
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