

# DeLiang Wang

## List of Publications by Citations

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#	Paper	IF	Citations
248	On Training Targets for Supervised Speech Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2014</b> , 22, 1849-1858	3.6	438
247	Supervised Speech Separation Based on Deep Learning: An Overview. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2018</b> , 26, 1702-1726	3.6	378
246	Computational Auditory Scene Analysis: Principles, Algorithms, and Applications <b>2006</b> ,		364
245	On Ideal Binary Mask As the Computational Goal of Auditory Scene Analysis <b>2005</b> , 181-197		294
244	Isolating the energetic component of speech-on-speech masking with ideal time-frequency segregation. <i>Journal of the Acoustical Society of America</i> , <b>2006</b> , 120, 4007-18	2.2	274
243	Global competition and local cooperation in a network of neural oscillators. <i>Physica D: Nonlinear Phenomena</i> , <b>1995</b> , 81, 148-176	3.3	270
242	Complex Ratio Masking for Monaural Speech Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2016</b> , 24, 483-492	3.6	248
241	Towards Scaling Up Classification-Based Speech Separation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 1381-1390		247
240	Speech segregation based on sound localization. <i>Journal of the Acoustical Society of America</i> , <b>2003</b> , 114, 2236-52	2.2	245
239	Monaural speech segregation based on pitch tracking and amplitude modulation. <i>IEEE Transactions on Neural Networks</i> , <b>2004</b> , 15, 1135-50		222
238	Image segmentation based on oscillatory correlation. <i>Neural Computation</i> , <b>1997</b> , 9, 805-36	2.9	192
237	Ideal ratio mask estimation using deep neural networks for robust speech recognition <b>2013</b> ,		190
236	Locally excitatory globally inhibitory oscillator networks. <i>IEEE Transactions on Neural Networks</i> , <b>1995</b> , 6, 283-6		180
235	Pattern Segmentation in Associative Memory. <i>Neural Computation</i> , <b>1990</b> , 2, 94-106	2.9	168
234	The role of priming in conjunctive visual search. <i>Cognition</i> , <b>2002</b> , 85, 37-52	3.5	143
233	An algorithm to improve speech recognition in noise for hearing-impaired listeners. <i>Journal of the Acoustical Society of America</i> , <b>2013</b> , 134, 3029-38	2.2	127
232	A multipitch tracking algorithm for noisy speech. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>2003</b> , 11, 229-241		126

231	Speech intelligibility in background noise with ideal binary time-frequency masking. <i>Journal of the Acoustical Society of America</i> , <b>2009</b> , 125, 2336-47	2.2	125
230	Texture classification using spectral histograms. <i>IEEE Transactions on Image Processing</i> , <b>2003</b> , 12, 661-708.7		119
229	A Deep Ensemble Learning Method for Monaural Speech Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2016</b> , 24, 967-977	3.6	117
228	Binary and ratio time-frequency masks for robust speech recognition. <i>Speech Communication</i> , <b>2006</b> , 48, 1486-1501	2.8	115
227	Emergent synchrony in locally coupled neural oscillators. <i>IEEE Transactions on Neural Networks</i> , <b>1995</b> , 6, 941-8		112
226	Efficient visual search without top-down or bottom-up guidance. <i>Perception &amp; Psychophysics</i> , <b>2005</b> , 67, 239-53		110
225	Exploring Monaural Features for Classification-Based Speech Segregation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 270-279		109
224	A Tandem Algorithm for Pitch Estimation and Voiced Speech Segregation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2010</b> , 18, 2067-2079		109
223	CASA-Based Robust Speaker Identification. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2012</b> , 20, 1608-1616		107
222	Learning Spectral Mapping for Speech Dereverberation and Denoising. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2015</b> , 23, 982-992	3.6	105
221	Role of mask pattern in intelligibility of ideal binary-masked noisy speech. <i>Journal of the Acoustical Society of America</i> , <b>2009</b> , 126, 1415-26	2.2	102
220	Time-frequency masking for speech separation and its potential for hearing aid design. <i>Trends in Amplification</i> , <b>2008</b> , 12, 332-53		102
219	Time-Frequency Masking in the Complex Domain for Speech Dereverberation and Denoising. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2017</b> , 25, 1492-1501	3.6	95
218	Long short-term memory for speaker generalization in supervised speech separation. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 141, 4705	2.2	95
217	A two-stage algorithm for one-microphone reverberant speech enhancement. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2006</b> , 14, 774-784		95
216	Large-scale training to increase speech intelligibility for hearing-impaired listeners in novel noises. <i>Journal of the Acoustical Society of America</i> , <b>2016</b> , 139, 2604	2.2	93
215	On the optimality of ideal binary time-frequency masks. <i>Speech Communication</i> , <b>2009</b> , 51, 230-239	2.8	89
214	A Convolutional Recurrent Neural Network for Real-Time Speech Enhancement		88

213	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> , <b>2014</b> , 22, 1993-2002	3.6	80
212	The time dimension for scene analysis. <i>IEEE Transactions on Neural Networks</i> , <b>2005</b> , 16, 1401-26		80
211	Remote Sensing Image Segmentation by Combining Spectral and Texture Features. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 16-24	8.1	76
210	Separation of Singing Voice From Music Accompaniment for Monaural Recordings. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2007</b> , 15, 1475-1487		75
209	Auditory Segmentation Based on Onset and Offset Analysis. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2007</b> , 15, 396-405		74
208	Image and texture segmentation using local spectral histograms. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 3066-77	8.7	74
207	A New Framework for CNN-Based Speech Enhancement in the Time Domain. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 1179-1188	3.6	72
206	Analyzing noise robustness of MFCC and GFCC features in speaker identification <b>2013</b> ,		72
205	Binaural Localization of Multiple Sources in Reverberant and Noisy Environments. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2012</b> , 20, 1503-1512		70
204	Boosting Contextual Information for Deep Neural Network Based Voice Activity Detection. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2016</b> , 24, 252-264	3.6	69
203	Robust Speaker Identification in Noisy and Reverberant Conditions. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2014</b> , 22, 836-845	3.6	69
202	A computational auditory scene analysis system for speech segregation and robust speech recognition. <i>Computer Speech and Language</i> , <b>2010</b> , 24, 77-93	2.8	69
201	A dynamically coupled neural oscillator network for image segmentation. <i>Neural Networks</i> , <b>2002</b> , 15, 423-39	9.1	67
200	Synchronization and desynchronization in a network of locally coupled Wilson-Cowan oscillators. <i>IEEE Transactions on Neural Networks</i> , <b>1996</b> , 7, 541-54		67
199	Binaural Classification for Reverberant Speech Segregation Using Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2014</b> , 22, 2112-2121	3.6	64
198	A binaural processor for missing data speech recognition in the presence of noise and small-room reverberation. <i>Speech Communication</i> , <b>2004</b> , 43, 361-378	2.8	64
197	Deep Learning Based Binaural Speech Separation in Reverberant Environments. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2017</b> , 25, 1075-1084	3.6	63
196	TCNN: Temporal Convolutional Neural Network for Real-time Speech Enhancement in the Time Domain <b>2019</b> ,		61

195	A classification based approach to speech segregation. <i>Journal of the Acoustical Society of America</i> , <b>2012</b> , 132, 3475-83	2.2	61
194	Gated Residual Networks with Dilated Convolutions for Monaural Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 189-198	3.6	61
193	Factorization-Based Texture Segmentation. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 3488-97	8.7	59
192	An auditory-based feature for robust speech recognition <b>2009</b> ,		55
191	. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2014</b> , 22, 826-835	3.6	54
190	Binaural Tracking of Multiple Moving Sources. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2008</b> , 16, 728-739		53
189	A spectral histogram model for texton modeling and texture discrimination. <i>Vision Research</i> , <b>2002</b> , 42, 2617-34	2.1	53
188	Weight adaptation and oscillatory correlation for image segmentation. <i>IEEE Transactions on Neural Networks</i> , <b>2000</b> , 11, 1106-23		53
187	Learning Complex Spectral Mapping with Gated Convolutional Recurrent Networks for Monaural Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 380-390	3.6	53
186	End-to-End Speech Separation with Unfolded Iterative Phase Reconstruction		52
185	Divide and Conquer: A Deep CASA Approach to Talker-independent Monaural Speaker Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 2092-2102	3.6	51
184	A Joint Training Framework for Robust Automatic Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2016</b> , 24, 796-806	3.6	50
183	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> , <b>2015</b> , 138, 1660-9	2.2	50
182	Deep Learning Reinvents the Hearing Aid: Finally, wearers of hearing aids can pick out a voice in a crowded room. <i>IEEE Spectrum</i> , <b>2017</b> , 54, 32-37	1.7	49
181	Neural Network Based Pitch Tracking in Very Noisy Speech. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2014</b> , 22, 2158-2168	3.6	48
180	Two-microphone separation of speech mixtures. <i>IEEE Transactions on Neural Networks</i> , <b>2008</b> , 19, 475-92		46
179	HMM-Based Multipitch Tracking for Noisy and Reverberant Speech. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2011</b> , 19, 1091-1102		44
178	Multitalker speech perception with ideal time-frequency segregation: effects of voice characteristics and number of talkers. <i>Journal of the Acoustical Society of America</i> , <b>2009</b> , 125, 4006-22	2.2	43

177	Transforming Binary Uncertainties for Robust Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2007</b> , 15, 2130-2140		42
176	A deep neural network for time-domain signal reconstruction <b>2015</b> ,		41
175	A Supervised Learning Approach to Monaural Segregation of Reverberant Speech. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2009</b> , 17, 625-638		41
174	Segregation of unvoiced speech from nonspeech interference. <i>Journal of the Acoustical Society of America</i> , <b>2008</b> , 124, 1306-19	2.2	41
173	Separation of Speech by Computational Auditory Scene Analysis <b>2005</b> , 371-402		41
172	Two-stage Deep Learning for Noisy-reverberant Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 53-62	3.6	40
171	An Unsupervised Approach to Cochannel Speech Separation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 122-131		39
170	Relaxation oscillators with time delay coupling. <i>Physica D: Nonlinear Phenomena</i> , <b>1998</b> , 111, 151-178	3.3	39
169	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2006</b> , 14, 289-298		39
168	Joint noise adaptive training for robust automatic speech recognition <b>2014</b> ,		38
167	LEGION-Based Automatic Road Extraction From Satellite Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2011</b> , 49, 4528-4538	8.1	38
166	Incorporating Auditory Feature Uncertainties in Robust Speaker Identification <b>2007</b> ,		37
165	Robust Speaker Localization Guided by Deep Learning-Based Time-Frequency Masking. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 178-188	3.6	37
164	Speech perception of noise with binary gains. <i>Journal of the Acoustical Society of America</i> , <b>2008</b> , 124, 2303-7	2.2	36
163	Pitch-based monaural segregation of reverberant speech. <i>Journal of the Acoustical Society of America</i> , <b>2006</b> , 120, 458-69	2.2	36
162	A Tandem Algorithm for Singing Pitch Extraction and Voice Separation From Music Accompaniment. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2012</b> , 20, 1482-1491		34
161	Learning spectral mapping for speech dereverberation <b>2014</b> ,		34
160	Binaural segregation in multisource reverberant environments. <i>Journal of the Acoustical Society of America</i> , <b>2006</b> , 120, 4040-51	2.2	34

159	Combining Spectral and Spatial Features for Deep Learning Based Blind Speaker Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 457-468	3.6	33
158	Features for Masking-Based Monaural Speech Separation in Reverberant Conditions. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2017</b> , 25, 1085-1094	3.6	32
157	<b>2019</b> ,		31
156	Unvoiced Speech Segregation From Nonspeech Interference via CASA and Spectral Subtraction. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2011</b> , 19, 1600-1609		31
155	Complex Spectral Mapping for Single- and Multi-Channel Speech Enhancement and Robust ASR. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 1778-1787	3.6	28
154	Reconstruction techniques for improving the perceptual quality of binary masked speech. <i>Journal of the Acoustical Society of America</i> , <b>2014</b> , 136, 892-902	2.2	28
153	A Supervised Learning Approach to Monaural Segregation of Reverberant Speech <b>2007</b> ,		28
152	Synchronization in relaxation oscillator networks with conduction delays. <i>Neural Computation</i> , <b>2001</b> , 13, 1003-21	2.9	28
151	An oscillatory correlation model of auditory streaming. <i>Cognitive Neurodynamics</i> , <b>2008</b> , 2, 7-19	4.2	27
150	Complex ratio masking for joint enhancement of magnitude and phase <b>2016</b> ,		27
149	Complex Spectral Mapping with a Convolutional Recurrent Network for Monaural Speech Enhancement <b>2019</b> ,		26
148	A schema-based model for phonemic restoration. <i>Speech Communication</i> , <b>2005</b> , 45, 63-87	2.8	26
147	On Adversarial Training and Loss Functions for Speech Enhancement <b>2018</b> ,		26
146	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> , <b>2017</b> , 141, 4230	2.2	25
145	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 1993-2005		24
144	Dense CNN with Self-Attention for Time-Domain Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 1270-1279	3.6	24
143	DNN-based enhancement of noisy and reverberant speech <b>2016</b> ,		23
142	Motion segmentation based on motion/brightness integration and oscillatory correlation. <i>IEEE Transactions on Neural Networks</i> , <b>2000</b> , 11, 935-47		23

141	A New Framework for Supervised Speech Enhancement in the Time Domain			23
140	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> , <b>2013</b> , 21, 806-815			22
139	Monaural Musical Sound Separation Based on Pitch and Common Amplitude Modulation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2009</b> , 17, 1361-1371			22
138	Selecting salient objects in real scenes: an oscillatory correlation model. <i>Neural Networks</i> , <b>2011</b> , 24, 54-64			22
137	Primitive Auditory Segregation Based on Oscillatory Correlation. <i>Cognitive Science</i> , <b>1996</b> , 20, 409-456	2.2		22
136	Improving Robustness of Deep Neural Network Acoustic Models via Speech Separation and Joint Adaptive Training. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2015</b> , 23, 92-101	3.6		21
135	Sequential Organization of Speech in Reverberant Environments by Integrating Monaural Grouping and Binaural Localization. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2010</b> , 18, 1856-1866			21
134	A speech enhancement algorithm by iterating single- and multi-microphone processing and its application to robust ASR <b>2017</b> ,			20
133	An SVM based classification approach to speech separation <b>2011</b> ,			20
132	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> , <b>2019</b> , 145, 1378	2.2		19
131	A Neural Model of Synaptic Plasticity Underlying Short-term and Long-term Habituation. <i>Adaptive Behavior</i> , <b>1993</b> , 2, 111-129	1.1		19
130	Speech-cue transmission by an algorithm to increase consonant recognition in noise for hearing-impaired listeners. <i>Journal of the Acoustical Society of America</i> , <b>2014</b> , 136, 3325	2.2		18
129	Modelling the perceptual segregation of double vowels with a network of neural oscillators. <i>Neural Networks</i> , <b>1997</b> , 10, 1547-1558	9.1		18
128	Deep Learning Based Target Cancellation for Speech Dereverberation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 941-950	3.6		17
127	Noise Perturbation for Supervised Speech Separation. <i>Speech Communication</i> , <b>2016</b> , 78, 1-10	2.8		17
126	A CASA-Based System for Long-Term SNR Estimation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2012</b> , 20, 2518-2527			17
125	Monaural speech segregation based on pitch tracking and amplitude modulation <b>2002</b> ,			17
124	<b>2020</b> ,			17

123	Monaural Speech Dereverberation Using Temporal Convolutional Networks with Self Attention. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 1598-1607	3.6	16
122	Impact of phase estimation on single-channel speech separation based on time-frequency masking. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 141, 4668	2.2	16
121	Estimating nonnegative matrix model activations with deep neural networks to increase perceptual speech quality. <i>Journal of the Acoustical Society of America</i> , <b>2015</b> , 138, 1399-407	2.2	16
120	Scene analysis by integrating primitive segmentation and associative memory. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2002</b> , 32, 254-68		16
119	An iterative model-based approach to cochannel speech separation. <i>Eurasip Journal on Audio, Speech, and Music Processing</i> , <b>2013</b> , 2013,	2.3	15
118	A structure-preserving training target for supervised speech separation <b>2014</b> ,		15
117	The role of binary mask patterns in automatic speech recognition in background noise. <i>Journal of the Acoustical Society of America</i> , <b>2013</b> , 133, 3083-93	2.2	15
116	Robust speaker identification using auditory features and computational auditory scene analysis. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	15
115	Modeling the dishabituation hierarchy: the role of the primordial hippocampus. <i>Biological Cybernetics</i> , <b>1992</b> , 67, 535-44	2.8	15
114	Long Short-Term Memory for Speaker Generalization in Supervised Speech Separation		15
113	Primitive Auditory Segregation Based on Oscillatory Correlation <b>1996</b> , 20, 409		15
112	On Cross-Corpus Generalization of Deep Learning Based Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 2489-2499	3.6	15
111	A two-stage algorithm for noisy and reverberant speech enhancement <b>2017</b> ,		14
110	A multistage approach to blind separation of convolutive speech mixtures. <i>Speech Communication</i> , <b>2011</b> , 53, 524-539	2.8	14
109	Robust speech recognition by integrating speech separation and hypothesis testing. <i>Speech Communication</i> , <b>2010</b> , 52, 72-81	2.8	14
108	Synchronization rates in classes of relaxation oscillators. <i>IEEE Transactions on Neural Networks</i> , <b>2004</b> , 15, 1027-38		14
107	Towards Model Compression for Deep Learning Based Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 1785-1794	3.6	14
106	Image segmentation using local spectral histograms and linear regression. <i>Pattern Recognition Letters</i> , <b>2012</b> , 33, 615-622	4.7	13

105	Sequential organization of speech in computational auditory scene analysis. <i>Speech Communication</i> , <b>2009</b> , 51, 657-667	2.8	13
104	Binaural sound segregation for multisource reverberant environments		13
103	Gated Residual Networks with Dilated Convolutions for Supervised Speech Separation <b>2018</b> ,		13
102	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> , <b>2018</b> , 144, 1627	2.2	13
101	Exploring Deep Complex Networks for Complex Spectrogram Enhancement <b>2019</b> ,		12
100	Robust Speaker Recognition Based on Single-Channel and Multi-Channel Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 1293-1302	3.6	12
99	Recurrent deep stacking networks for supervised speech separation <b>2017</b> ,		12
98	A multi-pitch tracking algorithm for noisy speech <b>2002</b> ,		12
97	A Casa Approach to Deep Learning Based Speaker-Independent Co-Channel Speech Separation <b>2018</b> ,		12
96	Deep Learning for Talker-dependent Reverberant Speaker Separation: An Empirical Study. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 1839-1848	3.6	11
95	Multi-Microphone Complex Spectral Mapping for Speech Dereverberation <b>2020</b> ,		11
94	Robust speaker identification in noisy and reverberant conditions <b>2014</b> ,		11
93	A model for multitalker speech perception. <i>Journal of the Acoustical Society of America</i> , <b>2008</b> , 124, 3213-24		11
92	Phoneme-specific speech separation <b>2016</b> ,		10
91	Configurational pattern discrimination responsible for dishabituation in common toads <i>Bufo bufo</i> (L.): behavioral tests of the predictions of a neural model. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>1992</b> , 170, 317-25	2.3	10
90	Multi-microphone Complex Spectral Mapping for Utterance-wise and Continuous Speech Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 2001-2014	3.6	10
89	On Spatial Features for Supervised Speech Separation and its Application to Beamforming and Robust ASR <b>2018</b> ,		10
88	Unsupervised speaker adaptation of batch normalized acoustic models for robust ASR <b>2017</b> ,		9

87	Speech segregation based on sound localization		9
86	Speaker-dependent multipitch tracking using deep neural networks. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 141, 710	2.2	8
85	Towards Generalizing Classification Based Speech Separation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 168-177		8
84	A trend estimation algorithm for singing pitch detection in musical recordings <b>2011</b> ,		8
83	A multistage approach for blind separation of convolutive speech mixtures <b>2009</b> ,		8
82	Robust speech recognition from binary masks. <i>Journal of the Acoustical Society of America</i> , <b>2010</b> , 128, EL217-22	2.2	8
81	Relaxation Oscillators and Networks <b>1999</b> ,		8
80	Learning Complex Spectral Mapping for Speech Enhancement with Improved Cross-Corpus Generalization		8
79	Time-Frequency Masking Based Online Speech Enhancement with Multi-Channel Data Using Convolutional Neural Networks <b>2018</b> ,		8
78	Mask Weighted Stft Ratios for Relative Transfer Function Estimation and ITS Application to Robust ASR <b>2018</b> ,		8
77	Deep ANC: A deep learning approach to active noise control. <i>Neural Networks</i> , <b>2021</b> , 141, 1-10	9.1	8
76	Modeling Global Synchrony in the Visual Cortex by Locally Coupled Neural Oscillators <b>1994</b> , 109-114		8
75	Neural networks for supervised pitch tracking in noise <b>2014</b> ,		7
74	Feature denoising for speech separation in unknown noisy environments <b>2013</b> ,		7
73	Robust speaker identification using a CASA front-end <b>2011</b> ,		7
72	Musical Sound Separation Using Pitch-Based Labeling and Binary Time-Frequency Masking. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	7
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70	Extraction of hydrographic regions from remote sensing images using an oscillator network with weight adaptation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2001</b> , 39, 207-211	8.1	7

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68	Cochannel Speaker Identification in Anechoic and Reverberant Conditions. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2015</b> , 23, 1727-1736	3.6	6
67	Deep neural networks for estimating speech model activations <b>2015,</b>		6
66	An oscillatory correlation model of object-based attention <b>2009,</b>		6
65	Separating Underdetermined Convolutional Speech Mixtures. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 674-681	0.9	6
64	A Supervised Learning Approach to Uncertainty Decoding for Robust Speech Recognition		6
63	Binaural tracking of multiple moving sources		6
62	A talker-independent deep learning algorithm to increase intelligibility for hearing-impaired listeners in reverberant competing talker conditions. <i>Journal of the Acoustical Society of America</i> , <b>2020</b> , 147, 4106	2.2	5
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60	The optimal threshold for removing noise from speech is similar across normal and impaired hearing-a time-frequency masking study. <i>Journal of the Acoustical Society of America</i> , <b>2019</b> , 145, EL581	2.2	5
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58	Pitch Detection in Polyphonic Music using Instrument Tone Models <b>2007,</b>		5
57	An effectively causal deep learning algorithm to increase intelligibility in untrained noises for hearing-impaired listeners. <i>Journal of the Acoustical Society of America</i> , <b>2021</b> , 149, 3943	2.2	5
56	Deep Casa for Talker-independent Monaural Speech Separation <b>2020,</b>		4
55	Reverberant Speech Segregation Based on Multipitch Tracking and Classification. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2011</b> , 19, 2328-2337		4
54	An oscillatory correlation model of visual motion analysis. <i>Perception &amp; Psychophysics</i> , <b>2002</b> , 64, 1191-217		4
53	Co-channel speaker identification using usable speech extraction based on multi-pitch tracking		4
52	A neural oscillator sound separator for missing data speech recognition		4

51	Three neural models which process temporal information. <i>Neural Networks</i> , <b>1988</b> , 1, 227	9.1	4
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46	Deep Learning Based Real-time Speech Enhancement for Dual-microphone Mobile Phones. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 1853-1863	3.6	4
45	Towards Robust Speech Super-resolution. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 2058-2066	3.6	4
44	Self-attending RNN for Speech Enhancement to Improve Cross-corpus Generalization. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2022</b> , 1-1	3.6	4
43	Time-Frequency Loss for CNN Based Speech Super-Resolution <b>2020</b> ,		3
42	Integrating monaural and binaural analysis for localizing multiple reverberant sound sources <b>2010</b> ,		3
41	A multipitch tracking algorithm for noisy and reverberant speech <b>2010</b> ,		3
40	Automatic road extraction from satellite imagery using LEGION networks <b>2009</b> ,		3
39	Musical Sound Separation Based on Binary Time-Frequency Masking. <i>Eurasip Journal on Audio, Speech, and Music Processing</i> , <b>2009</b> , 2009, 1-10	2.3	3
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32	Recurrent Neural Networks for Cochannel Speech Separation in Reverberant Environments <b>2018</b> ,		3
31	Talker-Independent Speaker Separation in Reverberant Conditions <b>2020</b> ,		2
30	A sparse representation approach for perceptual quality improvement of separated speech <b>2013</b> ,		2
29	Incorporating spectral subtraction and noise type for unvoiced speech segregation <b>2009</b> ,		2
28	On the role of localization cues in binaural segregation of reverberant speech <b>2009</b> ,		2
27	Range image segmentation using an oscillatory network		2
26	Exploiting Uncertainties for Binaural Speech Recognition <b>2007</b> ,		2
25	Speech Recognition in Multisource Reverberant Environments with Binaural Inputs		2
24	Robust speech recognition by integrating speech separation and hypothesis testing		2
23	Deep learning based speaker separation and dereverberation can generalize across different languages to improve intelligibility. <i>Journal of the Acoustical Society of America</i> , <b>2021</b> , 150, 2526	2.2	2
22	A Two-Stage Approach to Noisy Cochannel Speech Separation with Gated Residual Networks		2
21	Improving Robustness of Deep Learning Based Monaural Speech Enhancement Against Processing Artifacts <b>2020</b> ,		2
20	Utterance-Wise Recurrent Dropout and Iterative Speaker Adaptation for Robust Monaural Speech Recognition <b>2018</b> ,		2
19	Recurrent Neural Networks and Acoustic Features for Frame-Level Signal-to-Noise Ratio Estimation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 2878-2887	3.6	2
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16	On the use of ideal binary masks for improving phonetic classification <b>2011</b> ,		1

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14	Separation of fricatives and affricates		1
13	A one-microphone algorithm for reverberant speech enhancement		1
12	Location-based sound segregation		1
11	Synchrony and desynchrony in integrate-and-fire oscillators		1
10	Cocktail Party Processing <b>2008</b> , 333-348		1
9	Temporal alignment, spatial spread and the linear independence criterion for blind separation of voices		1
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2	Unifying Two Forms of Memory: A Neural Model <b>1994</b> , 281-286		
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