DeLiang Wang

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/1530851/deliang-wang-publications-by-year.pdf
Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

248 papers	10,567 citations	56 h-index	95 g-index
291 ext. papers	13,680 ext. citations	3.1 avg, IF	7.21 L-index

#	Paper	IF	Citations
248	Neural Spectrospatial Filtering. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2022**, 30, 605-621	3.6	3
247	Self-attending RNN for Speech Enhancement to Improve Cross-corpus Generalization. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2022**, 1-1	3.6	4
246	A causal and talker-independent speaker separation/dereverberation deep learning algorithm: Cost associated with conversion to real-time capable operation. *Journal of the Acoustical Society of America*, **2021**, 150, 3976	2.2	3
245	Neural Cascade Architecture with Triple-domain Loss for Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 1-1	3.6	3
244	Deep learning based speaker separation and dereverberation can generalize across different languages to improve intelligibility. *Journal of the Acoustical Society of America*, **2021**, 150, 2526	2.2	2
243	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	2.2	5
242	Towards Model Compression for Deep Learning Based Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 1785-1794	3.6	14
241	Multi-microphone Complex Spectral Mapping for Utterance-wise and Continuous Speech Separation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 2001-2014	3.6	10
240	Speaker Separation Using Speaker Inventories and Estimated Speech. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 537-546	3.6	0
239	Dense CNN with Self-Attention for Time-Domain Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 1270-1279	3.6	24
238	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	3.6	4
237	Deep ANC: A deep learning approach to active noise control. *Neural Networks*, **2021**, 141, 1-10	9.1	8
236	Towards Robust Speech Super-resolution. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 2058-2066	3.6	4
235	Recurrent Neural Networks and Acoustic Features for Frame-Level Signal-to-Noise Ratio Estimation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 2878-2887	3.6	2
234	Talker-Independent Speaker Separation in Reverberant Conditions **2020**,		2
233	Time-Frequency Loss for CNN Based Speech Super-Resolution **2020**,		3
232	Multi-Microphone Complex Spectral Mapping for Speech Dereverberation **2020**,		11

231	Monaural Speech Dereverberation Using Temporal Convolutional Networks with Self Attention. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2020**, 28, 1598-1607	3.6	16
230	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	3.6	28
229	Robust Speaker Recognition Based on Single-Channel and Multi-Channel Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2020**, 28, 1293-1302	3.6	12
228	Deep Learning Based Target Cancellation for Speech Dereverberation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2020**, 28, 941-950	3.6	17
227	A talker-independent deep learning algorithm to increase intelligibility for hearing-impaired listeners in reverberant competing talker conditions. *Journal of the Acoustical Society of America*, **2020**, 147, 4106	2.2	5
226	Deep Casa for Talker-independent Monaural Speech Separation **2020**,		4
225	**2020**,		17
224	Improving Robustness of Deep Learning Based Monaural Speech Enhancement Against Processing Artifacts **2020**,		2
223	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	3.6	4
222	Learning Complex Spectral Mapping with Gated Convolutional Recurrent Networks for Monaural Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2020**, 28, 380-390	3.6	53
221	Causal Deep CASA for Monaural Talker-Independent Speaker Separation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2020**, 28, 2109-2118	3.6	4
220	On Cross-Corpus Generalization of Deep Learning Based Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2020**, 28, 2489-2499	3.6	15
219	A two-stage deep learning algorithm for talker-independent speaker separation in reverberant conditions. *Journal of the Acoustical Society of America*, **2020**, 148, 1157	2.2	1
218	Exploring Deep Complex Networks for Complex Spectrogram Enhancement **2019**,		12
217	Deep Learning for Talker-dependent Reverberant Speaker Separation: An Empirical Study. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 1839-1848	3.6	11
216	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	3.6	51
215	TCNN: Temporal Convolutional Neural Network for Real-time Speech Enhancement in the Time Domain **2019**,		61
214	Complex Spectral Mapping with a Convolutional Recurrent Network for Monaural Speech Enhancement **2019**,		26

213	**2019**,		31
212	Robust Sparse Multichannel Active Noise Control **2019**,		1
211	A New Framework for CNN-Based Speech Enhancement in the Time Domain. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 1179-1188	3.6	72
210	A deep learning algorithm to increase intelligibility for hearing-impaired listeners in the presence of a competing talker and reverberation. *Journal of the Acoustical Society of America*, **2019**, 145, 1378	2.2	19
209	The optimal threshold for removing noise from speech is similar across normal and impaired hearing-a time-frequency masking study. *Journal of the Acoustical Society of America*, **2019**, 145, EL581	2.2	5
208	Two-stage Deep Learning for Noisy-reverberant Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 53-62	3.6	40
207	Combining Spectral and Spatial Features for Deep Learning Based Blind Speaker Separation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 457-468	3.6	33
206	Robust Speaker Localization Guided by Deep Learning-Based Time-Frequency Masking. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 178-188	3.6	37
205	Gated Residual Networks with Dilated Convolutions for Monaural Speech Enhancement. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 189-198	3.6	61
204	DNN Based Mask Estimation for Supervised Speech Separation. *Signals and Communication Technology*, **2018**, 207-235	0.5	5
203	Supervised Speech Separation Based on Deep Learning: An Overview. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2018**, 26, 1702-1726	3.6	378
202	On Spatial Features for Supervised Speech Separation and its Application to Beamforming and Robust ASR **2018**,		10
201	Gated Residual Networks with Dilated Convolutions for Supervised Speech Separation **2018**,		13
200	Late Reverberation Suppression Using Recurrent Neural Networks with Long Short-Term Memory **2018**,		7
199	Utterance-Wise Recurrent Dropout and Iterative Speaker Adaptation for Robust Monaural Speech Recognition **2018**,		2
198	Recurrent Neural Networks for Cochannel Speech Separation in Reverberant Environments **2018**,		3
197	A Casa Approach to Deep Learning Based Speaker-Independent Co-Channel Speech Separation **2018**,		12
196	Time-Frequency Masking Based Online Speech Enhancement with Multi-Channel Data Using Convolutional Neural Networks **2018**,		8

195	A deep learning based segregation algorithm to increase speech intelligibility for hearing-impaired listeners in reverberant-noisy conditions. *Journal of the Acoustical Society of America*, **2018**, 144, 1627	2.2	13
194	Mask Weighted Stft Ratios for Relative Transfer Function Estimation and ITS Application to Robust ASR **2018**,		8
193	On Adversarial Training and Loss Functions for Speech Enhancement **2018**,		26
192	Deep Learning Reinvents the Hearing Aid: Finally, wearers of hearing aids can pick out a voice in a crowded room. *IEEE Spectrum*, **2017**, 54, 32-37	1.7	49
191	Speaker-dependent multipitch tracking using deep neural networks. *Journal of the Acoustical Society of America*, **2017**, 141, 710	2.2	8
190	Time-Frequency Masking in the Complex Domain for Speech Dereverberation and Denoising. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2017**, 25, 1492-1501	3.6	95
189	An algorithm to increase intelligibility for hearing-impaired listeners in the presence of a competing talker. *Journal of the Acoustical Society of America*, **2017**, 141, 4230	2.2	25
188	Deep Learning Based Binaural Speech Separation in Reverberant Environments. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2017**, 25, 1075-1084	3.6	63
187	Features for Masking-Based Monaural Speech Separation in Reverberant Conditions. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2017**, 25, 1085-1094	3.6	32
186	A speech enhancement algorithm by iterating single- and multi-microphone processing and its application to robust ASR **2017**,		20
185	A two-stage algorithm for noisy and reverberant speech enhancement **2017**,		14
184	Long short-term memory for speaker generalization in supervised speech separation. *Journal of the Acoustical Society of America*, **2017**, 141, 4705	2.2	95
183	Recurrent deep stacking networks for supervised speech separation **2017**,		12
182	Impact of phase estimation on single-channel speech separation based on time-frequency masking. *Journal of the Acoustical Society of America*, **2017**, 141, 4668	2.2	16
181	Unsupervised speaker adaptation of batch normalized acoustic models for robust ASR **2017**,		9
180	Phoneme-specific speech separation **2016**,		10
179	DNN-based enhancement of noisy and reverberant speech **2016**,		23
178	Noise Perturbation for Supervised Speech Separation. *Speech Communication*, **2016**, 78, 1-10	2.8	17

177	Complex Ratio Masking for Monaural Speech Separation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2016**, 24, 483-492	3.6	248
176	A Deep Ensemble Learning Method for Monaural Speech Separation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2016**, 24, 967-977	3.6	117
175	A Joint Training Framework for Robust Automatic Speech Recognition. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2016**, 24, 796-806	3.6	50
174	Boosting Contextual Information for Deep Neural Network Based Voice Activity Detection. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2016**, 24, 252-264	3.6	69
173	Large-scale training to increase speech intelligibility for hearing-impaired listeners in novel noises. *Journal of the Acoustical Society of America*, **2016**, 139, 2604	2.2	93
172	Complex ratio masking for joint enhancement of magnitude and phase **2016**,		27
171	Factorization-Based Texture Segmentation. *IEEE Transactions on Image Processing*, **2015**, 24, 3488-97	8.7	59
170	Cochannel Speaker Identification in Anechoic and Reverberant Conditions. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2015**, 23, 1727-1736	3.6	6
169	Deep neural networks for estimating speech model activations **2015**,		6
168	An algorithm to increase speech intelligibility for hearing-impaired listeners in novel segments of the same noise type. *Journal of the Acoustical Society of America*, **2015**, 138, 1660-9	2.2	50
167	Estimating nonnegative matrix model activations with deep neural networks to increase perceptual speech quality. *Journal of the Acoustical Society of America*, **2015**, 138, 1399-407	2.2	16
166	Learning Spectral Mapping for Speech Dereverberation and Denoising. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2015**, 23, 982-992	3.6	105
165	A deep neural network for time-domain signal reconstruction **2015**,		41
164	Improving Robustness of Deep Neural Network Acoustic Models via Speech Separation and Joint Adaptive Training. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2015**, 23, 92-101	3.6	21
163	Noise Perturbation Improves Supervised Speech Separation. *Lecture Notes in Computer Science*, **2015**, 83-90	0.9	4
162	Neural Network Based Pitch Tracking in Very Noisy Speech. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2014**, 22, 2158-2168	3.6	48
161	Robust speaker identification in noisy and reverberant conditions **2014**,		11
160	A Feature Study for Classification-Based Speech Separation at Low Signal-to-Noise Ratios. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2014**, 22, 1993-2002	3.6	80

159	Binaural Classification for Reverberant Speech Segregation Using Deep Neural Networks. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2014**, 22, 2112-2121	3.6	64
158	Robust Speaker Identification in Noisy and Reverberant Conditions. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2014**, 22, 836-845	3.6	69
157	. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2014**, 22, 826-835	3.6	54
156	Remote Sensing Image Segmentation by Combining Spectral and Texture Features. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 16-24	8.1	76
155	Learning spectral mapping for speech dereverberation **2014**,		34
154	Neural networks for supervised pitch tracking in noise **2014**,		7
153	Joint noise adaptive training for robust automatic speech recognition **2014**,		38
152	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	2.2	18
151	Reconstruction techniques for improving the perceptual quality of binary masked speech. *Journal of the Acoustical Society of America*, **2014**, 136, 892-902	2.2	28
150	A structure-preserving training target for supervised speech separation **2014**,		15
149	On Training Targets for Supervised Speech Separation. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2014**, 22, 1849-1858	3.6	438
148	An iterative model-based approach to cochannel speech separation. *Eurasip Journal on Audio, Speech, and Music Processing*, **2013**, 2013,	2.3	15
147	. *IEEE Transactions on Audio Speech and Language Processing*, **2013**, 21, 1993-2005		24
146	An Unsupervised Approach to Cochannel Speech Separation. *IEEE Transactions on Audio Speech and Language Processing*, **2013**, 21, 122-131		39
145	Towards Generalizing Classification Based Speech Separation. *IEEE Transactions on Audio Speech and Language Processing*, **2013**, 21, 168-177		8
144	Exploring Monaural Features for Classification-Based Speech Segregation. *IEEE Transactions on Audio Speech and Language Processing*, **2013**, 21, 270-279		109
143	Towards Scaling Up Classification-Based Speech Separation. *IEEE Transactions on Audio Speech and Language Processing*, **2013**, 21, 1381-1390		247
142	Binaural Detection, Localization, and Segregation in Reverberant Environments Based on Joint Pitch and Azimuth Cues. *IEEE Transactions on Audio Speech and Language Processing*, **2013**, 21, 806-815		22

141	The role of binary mask patterns in automatic speech recognition in background noise. *Journal of the Acoustical Society of America*, **2013**, 133, 3083-93	2.2	15
140	Ideal ratio mask estimation using deep neural networks for robust speech recognition **2013**,		190
139	An algorithm to improve speech recognition in noise for hearing-impaired listeners. *Journal of the Acoustical Society of America*, **2013**, 134, 3029-38	2.2	127
138	Analyzing noise robustness of MFCC and GFCC features in speaker identification **2013**,		72
137	A sparse representation approach for perceptual quality improvement of separated speech **2013**,		2
136	Coupling binary masking and robust ASR **2013**,		5
135	Feature denoising for speech separation in unknown noisy environments **2013**,		7
134	Image segmentation using local spectral histograms and linear regression. *Pattern Recognition Letters*, **2012**, 33, 615-622	4.7	13
133	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		34
132	Binaural Localization of Multiple Sources in Reverberant and Noisy Environments. *IEEE Transactions on Audio Speech and Language Processing*, **2012**, 20, 1503-1512		70
131	CASA-Based Robust Speaker Identification. *IEEE Transactions on Audio Speech and Language Processing*, **2012**, 20, 1608-1616		107
130	A CASA-Based System for Long-Term SNR Estimation. *IEEE Transactions on Audio Speech and Language Processing*, **2012**, 20, 2518-2527		17
129	Binaural speech segregation based on pitch and azimuth tracking **2012**,		1
128	A classification based approach to speech segregation. *Journal of the Acoustical Society of America*, **2012**, 132, 3475-83	2.2	61
127	SVM-based separation of unvoiced-voiced speech in cochannel conditions **2012**,		1
126	LEGION-Based Automatic Road Extraction From Satellite Imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2011**, 49, 4528-4538	8.1	38
125	HMM-Based Multipitch Tracking for Noisy and Reverberant Speech. *IEEE Transactions on Audio Speech and Language Processing*, **2011**, 19, 1091-1102		44
124	Unvoiced Speech Segregation From Nonspeech Interference via CASA and Spectral Subtraction. *IEEE Transactions on Audio Speech and Language Processing*, **2011**, 19, 1600-1609		31

123	Reverberant Speech Segregation Based on Multipitch Tracking and Classification. *IEEE Transactions on Audio Speech and Language Processing*, **2011**, 19, 2328-2337		4
122	A trend estimation algorithm for singing pitch detection in musical recordings **2011**,		8
121	Selecting salient objects in real scenes: an oscillatory correlation model. *Neural Networks*, **2011**, 24, 54-64	3.1	22
120	A multistage approach to blind separation of convolutive speech mixtures. *Speech Communication*, **2011**, 53, 524-539	2.8	14
119	Robust speaker identification using a CASA front-end **2011**,		7
118	On the use of ideal binary masks for improving phonetic classification **2011**,		1
117	An SVM based classification approach to speech separation **2011**,		20
116	Integrating monaural and binaural analysis for localizing multiple reverberant sound sources **2010**,		3
115	A multipitch tracking algorithm for noisy and reverberant speech **2010**,		3
114	Robust speech recognition from binary masks. *Journal of the Acoustical Society of America*, **2010**, 128, EL217-22	2.2	8
113	A Tandem Algorithm for Pitch Estimation and Voiced Speech Segregation. *IEEE Transactions on Audio Speech and Language Processing*, **2010**, 18, 2067-2079		109
112	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		21
111	Robust speech recognition by integrating speech separation and hypothesis testing. *Speech Communication*, **2010**, 52, 72-81	2.8	14
110	A computational auditory scene analysis system for speech segregation and robust speech recognition. *Computer Speech and Language*, **2010**, 24, 77-93	2.8	69
109	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, 4006-22	2.2	43
108	Role of mask pattern in intelligibility of ideal binary-masked noisy speech. *Journal of the Acoustical Society of America*, **2009**, 126, 1415-26	2.2	102
107	A multistage approach for blind separation of convolutive speech mixtures **2009**,		8
106	Incorporating spectral subtraction and noise type for unvoiced speech segregation **2009**,		2

105	On the role of localization cues in binaural segregation of reverberant speech **2009**,		2
104	A Supervised Learning Approach to Monaural Segregation of Reverberant Speech. *IEEE Transactions on Audio Speech and Language Processing*, **2009**, 17, 625-638		41
103	Monaural Musical Sound Separation Based on Pitch and Common Amplitude Modulation. *IEEE Transactions on Audio Speech and Language Processing*, **2009**, 17, 1361-1371		22
102	On the optimality of ideal binary time-frequency masks. *Speech Communication*, **2009**, 51, 230-239	2.8	89
101	Sequential organization of speech in computational auditory scene analysis. *Speech Communication*, **2009**, 51, 657-667	2.8	13
100	An auditory-based feature for robust speech recognition **2009**,		55
99	Speech intelligibility in background noise with ideal binary time-frequency masking. *Journal of the Acoustical Society of America*, **2009**, 125, 2336-47	2.2	125
98	An oscillatory correlation model of object-based attention **2009**,		6
97	Automatic road extraction from satellite imagery using LEGION networks **2009**,		3
96	Musical Sound Separation Based on Binary Time-Frequency Masking. *Eurasip Journal on Audio, Speech, and Music Processing*, **2009**, 2009, 1-10	2.3	3
95	Binaural Tracking of Multiple Moving Sources. *IEEE Transactions on Audio Speech and Language Processing*, **2008**, 16, 728-739		53
94	Two-microphone separation of speech mixtures. *IEEE Transactions on Neural Networks*, **2008**, 19, 475-92		46
93	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**,	1.6	7
92	Robust speaker identification using auditory features and computational auditory scene analysis. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**,	1.6	15
91	Time-frequency masking for speech separation and its potential for hearing aid design. *Trends in Amplification*, **2008**, 12, 332-53		102
90	Speech perception of noise with binary gains. *Journal of the Acoustical Society of America*, **2008**, 124, 2303-7	2.2	36
89	Segregation of unvoiced speech from nonspeech interference. *Journal of the Acoustical Society of America*, **2008**, 124, 1306-19	2.2	41
88	A model for multitalker speech perception. *Journal of the Acoustical Society of America*, **2008**, 124, 3213-24	2.2	11

87	An oscillatory correlation model of auditory streaming. *Cognitive Neurodynamics*, **2008**, 2, 7-19	4.2	27
86	The Time Dimension for Scene Analysis **2008**, 361-363		
85	Cocktail Party Processing **2008**, 333-348		1
84	A Supervised Learning Approach to Monaural Segregation of Reverberant Speech **2007**,		28
83	Auditory Segmentation Based on Onset and Offset Analysis. *IEEE Transactions on Audio Speech and Language Processing*, **2007**, 15, 396-405		74
82	Separation of Singing Voice From Music Accompaniment for Monaural Recordings. *IEEE Transactions on Audio Speech and Language Processing*, **2007**, 15, 1475-1487		75
81	Transforming Binary Uncertainties for Robust Speech Recognition. *IEEE Transactions on Audio Speech and Language Processing*, **2007**, 15, 2130-2140		42
80	Pitch Detection in Polyphonic Music using Instrument Tone Models **2007**,		5
79	Incorporating Auditory Feature Uncertainties in Robust Speaker Identification **2007**,		37
78	Exploiting Uncertainties for Binaural Speech Recognition **2007**,		2
77	Computational Scene Analysis. *Studies in Computational Intelligence*, **2007**, 163-191	0.8	4
76	. *IEEE Transactions on Audio Speech and Language Processing*, **2006**, 14, 289-298		39
75	Binaural segregation in multisource reverberant environments. *Journal of the Acoustical Society of America*, **2006**, 120, 4040-51	2.2	34
74	Isolating the energetic component of speech-on-speech masking with ideal time-frequency segregation. *Journal of the Acoustical Society of America*, **2006**, 120, 4007-18	2.2	274
73	Pitch-based monaural segregation of reverberant speech. *Journal of the Acoustical Society of America*, **2006**, 120, 458-69	2.2	36
72	Separating Underdetermined Convolutive Speech Mixtures. *Lecture Notes in Computer Science*, **2006**, 674-681	0.9	6
71	Image and texture segmentation using local spectral histograms. *IEEE Transactions on Image Processing*, **2006**, 15, 3066-77	8.7	74
70	A two-stage algorithm for one-microphone reverberant speech enhancement. *IEEE Transactions on Audio Speech and Language Processing*, **2006**, 14, 774-784		95

69	Binary and ratio time-frequency masks for robust speech recognition. *Speech Communication*, **2006**, 48, 1486-1501	2.8	115
68	Computational Auditory Scene Analysis: Principles, Algorithms, and Applications **2006**,		364
67	Cocktail Party Processing. *Lecture Notes in Computer Science*, **2006**, 6-6	0.9	
66	Separation of Speech by Computational Auditory Scene Analysis **2005**, 371-402		41
65	A schema-based model for phonemic restoration. *Speech Communication*, **2005**, 45, 63-87	2.8	26
64	Efficient visual search without top-down or bottom-up guidance. *Perception & Psychophysics*, **2005**, 67, 239-53		110
63	The time dimension for scene analysis. *IEEE Transactions on Neural Networks*, **2005**, 16, 1401-26		80
62	On Ideal Binary Mask As the Computational Goal of Auditory Scene Analysis **2005**, 181-197		294
61	A binaural processor for missing data speech recognition in the presence of noise and small-room reverberation. *Speech Communication*, **2004**, 43, 361-378	2.8	64
60	Monaural speech segregation based on pitch tracking and amplitude modulation. *IEEE Transactions on Neural Networks*, **2004**, 15, 1135-50		222
59	Synchronization rates in classes of relaxation oscillators. *IEEE Transactions on Neural Networks*, **2004**, 15, 1027-38		14
58	Intrinsic generalization analysis of low dimensional representations. *Neural Networks*, **2003**, 16, 537-45	9.1	3
57	A multipitch tracking algorithm for noisy speech. *IEEE Transactions on Speech and Audio Processing*, **2003**, 11, 229-241		126
56	Texture classification using spectral histograms. *IEEE Transactions on Image Processing*, **2003**, 12, 661-70	8.7	119
55	Speech segregation based on sound localization. *Journal of the Acoustical Society of America*, **2003**, 114, 2236-52	2.2	245
54	The role of priming in conjunctive visual search. *Cognition*, **2002**, 85, 37-52	3.5	143
53	A dynamically coupled neural oscillator network for image segmentation. *Neural Networks*, **2002**, 15, 423-39	9.1	67
52	An oscillatory correlation model of visual motion analysis. *Perception & Psychophysics*, **2002**, 64, 1191-217		4

51	A multi-pitch tracking algorithm for noisy speech **2002**,		12
50	Monaural speech segregation based on pitch tracking and amplitude modulation **2002**,		17
49	A spectral histogram model for texton modeling and texture discrimination. *Vision Research*, **2002**, 42, 2617-34	2.1	53
48	Scene analysis by integrating primitive segmentation and associative memory. *IEEE Transactions on Systems, Man, and Cybernetics*, **2002**, 32, 254-68		16
47	Location-based sound segregation **2002**,		3
46	Synchronization in relaxation oscillator networks with conduction delays. *Neural Computation*, **2001** , 13, 1003-21	2.9	28
45	Perceiving geometric patterns: from spirals to inside-outside relations. *IEEE Transactions on Neural Networks*, **2001**, 12, 1084-102		7
44	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	8.1	7
43	Motion segmentation based on motion/brightness integration and oscillatory correlation. *IEEE Transactions on Neural Networks*, **2000**, 11, 935-47		23
42	Weight adaptation and oscillatory correlation for image segmentation. *IEEE Transactions on Neural Networks*, **2000**, 11, 1106-23		53
41	Relaxation Oscillators and Networks **1999**,		8
40	Relaxation oscillators with time delay coupling. *Physica D: Nonlinear Phenomena*, **1998**, 111, 151-178	3.3	39
39	Image segmentation based on oscillatory correlation. *Neural Computation*, **1997**, 9, 805-36	2.9	192
38	Modelling the perceptual segregation of double vowels with a network of neural oscillators. *Neural Networks*, **1997**, 10, 1547-1558	9.1	18
37	Primitive Auditory Segregation Based on Oscillatory Correlation. *Cognitive Science*, **1996**, 20, 409-456	2.2	22
36	Synchronization and desynchronization in a network of locally coupled Wilson-Cowan oscillators. *IEEE Transactions on Neural Networks*, **1996**, 7, 541-54		67
35	Primitive Auditory Segregation Based on Oscillatory Correlation **1996**, 20, 409		15
34	Emergent synchrony in locally coupled neural oscillators. *IEEE Transactions on Neural Networks*, **1995**, 6, 941-8		112

33	Locally excitatory globally inhibitory oscillator networks. *IEEE Transactions on Neural Networks*, **1995**, 6, 283-6		180
32	Locally excitatory, globally inhibitory oscillator networks: theory and application to scene segmentation **1995**, 2368, 135		
31	Global competition and local cooperation in a network of neural oscillators. *Physica D: Nonlinear Phenomena*, **1995**, 81, 148-176	3.3	270
30	Modeling neural mechanisms of vertebrate habituation: locus specificity and pattern discrimination. *Journal of Computational Neuroscience*, **1994**, 1, 285-99	1.4	3
29	Unifying Two Forms of Memory: A Neural Model **1994**, 281-286		
28	Modeling Global Synchrony in the Visual Cortex by Locally Coupled Neural Oscillators **1994**, 109-114		8
27	A Neural Model of Synaptic Plasticity Underlying Short-term and Long-term Habituation. *Adaptive Behavior*, **1993**, 2, 111-129	1.1	19
26	Modeling Stimulus Specific Habituation: The Role of the Primordial Hippocampus **1993**, 103-107		1
25	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	2.3	10
24	Modeling the dishabituation hierarchy: the role of the primordial hippocampus. *Biological Cybernetics*, **1992**, 67, 535-44	2.8	15
23	Pattern Segmentation in Associative Memory. *Neural Computation*, **1990**, 2, 94-106	2.9	168
22	Three neural models which process temporal information. *Neural Networks*, **1988**, 1, 227	9.1	4
21	Range image segmentation using an oscillatory network		2
20	A Supervised Learning Approach to Uncertainty Decoding for Robust Speech Recognition		6
19	Separation of fricatives and affricates		1
18	Speech Recognition in Multisource Reverberant Environments with Binaural Inputs		2
17	A one-microphone algorithm for reverberant speech enhancement		1
16	Binaural tracking of multiple moving sources		6

List of Publications

15	Binaural sound segregation for multisource reverberant environments	13
14	Co-channel speaker identification using usable speech extraction based on multi-pitch tracking	4
13	Robust speech recognition by integrating speech separation and hypothesis testing	2
12	A neural oscillator sound separator for missing data speech recognition	4
11	Location-based sound segregation	1
10	Speech segregation based on sound localization	9
9	Synchrony and desynchrony in integrate-and-fire oscillators	1
8	Learning Complex Spectral Mapping for Speech Enhancement with Improved Cross-Corpus Generalization	8
7	Long Short-Term Memory for Speaker Generalization in Supervised Speech Separation	15
6	A New Framework for Supervised Speech Enhancement in the Time Domain	23
5	A Convolutional Recurrent Neural Network for Real-Time Speech Enhancement	88
4	End-to-End Speech Separation with Unfolded Iterative Phase Reconstruction	52
3	A Two-Stage Approach to Noisy Cochannel Speech Separation with Gated Residual Networks	2
2	Temporal alignment, spatial spread and the linear independence criterion for blind separation of voices	1
1	Computational Auditory Scene Analysis and Automatic Speech Recognition433-462	