

# Chin-HuiLee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91  
papers

2,288  
citations

21  
h-index

46  
g-index

113  
ext. papers

3,169  
ext. citations

3.5  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
91	A Two-Stage Approach to Device-Robust Acoustic Scene Classification <b>2021</b> ,		1
90	Decentralizing Feature Extraction with Quantum Convolutional Neural Network for Automatic Speech Recognition <b>2021</b> ,		10
89	A Cross-Entropy-Guided Measure (CEGM) for Assessing Speech Recognition Performance and Optimizing DNN-Based Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 106-117	3.6	6
88	Correlating subword articulation with lip shapes for embedding aware audio-visual speech enhancement. <i>Neural Networks</i> , <b>2021</b> , 143, 171-182	9.1	2
87	Information Fusion in Attention Networks Using Adaptive and Multi-Level Factorized Bilinear Pooling for Audio-Visual Emotion Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 2617-2629	3.6	4
86	A Cross-Task Transfer Learning Approach to Adapting Deep Speech Enhancement Models to Unseen Background Noise Using Paired Senone Classifiers <b>2020</b> ,		3
85	Performance Analysis for Tensor-Train Decomposition to Deep Neural Network Based Vector-to-Vector Regression <b>2020</b> ,		1
84	Analyzing Upper Bounds on Mean Absolute Errors for Deep Neural Network-Based Vector-to-Vector Regression. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 3411-3422	4.8	11
83	A Multi-Target SNR-Progressive Learning Approach to Regression Based Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2020</b> , 28, 1608-1619	3.6	3
82	Tensor-To-Vector Regression for Multi-Channel Speech Enhancement Based on Tensor-Train Network <b>2020</b> ,		8
81	On Mean Absolute Error for Deep Neural Network Based Vector-to-Vector Regression. <i>IEEE Signal Processing Letters</i> , <b>2020</b> , 27, 1485-1489	3.2	37
80	Using Generalized Gaussian Distributions to Improve Regression Error Modeling for Deep Learning-Based Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 1919-1931	3.6	9
79	A Theory on Deep Neural Network Based Vector-to-Vector Regression With an Illustration of Its Expressive Power in Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 1932-1943	3.6	14
78	Improving Mispronunciation Detection of Mandarin Tones for Non-Native Learners With Soft-Target Tone Labels and BLSTM-Based Deep Tone Models. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 2012-2024	3.6	4
77	Speech Enhancement Based on Teacher-Student Deep Learning Using Improved Speech Presence Probability for Noise-Robust Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 2080-2091	3.6	28
76	DNN Training Based on Classic Gain Function for Single-channel Speech Enhancement and Recognition <b>2019</b> ,		3
75	Improving Audio-visual Speech Recognition Performance with Cross-modal Student-teacher Training <b>2019</b> ,		1

74	A deep learning approach to automatic teeth detection and numbering based on object detection in dental periapical films. <i>Scientific Reports</i> , <b>2019</b> , 9, 3840	4.9	75
73	An iterative mask estimation approach to deep learning based multi-channel speech recognition. <i>Speech Communication</i> , <b>2019</b> , 106, 31-43	2.8	11
72	Deep Learning-Based Noise Reduction Approach to Improve Speech Intelligibility for Cochlear Implant Recipients. <i>Ear and Hearing</i> , <b>2018</b> , 39, 795-809	3.4	33
71	Improving Mandarin Tone Recognition Based on DNN by Combining Acoustic and Articulatory Features Using Extended Recognition Networks. <i>Journal of Signal Processing Systems</i> , <b>2018</b> , 90, 1077-1087	1.4	7
70	Improving Deep Neural Network Based Speech Synthesis through Contextual Feature Parametrization and Multi-Task Learning. <i>Journal of Signal Processing Systems</i> , <b>2018</b> , 90, 1025-1037	1.4	3
69	Image region annotation based on segmentation and semantic correlation analysis. <i>IET Image Processing</i> , <b>2018</b> , 12, 1331-1337	1.7	8
68	Two-Stage Enhancement of Noisy and Reverberant Microphone Array Speech for Automatic Speech Recognition Systems Trained with Only Clean Speech <b>2018</b> ,		2
67	Improving Mandarin Tone Mispronunciation Detection for Non-Native Learners with Soft-Target Tone Labels and BLSTM-Based Deep Models <b>2018</b> ,		3
66	Convolutional-Recurrent Neural Networks for Speech Enhancement <b>2018</b> ,		39
65	A Hybrid Approach to Combining Conventional and Deep Learning Techniques for Single-Channel Speech Enhancement and Recognition <b>2018</b> ,		11
64	A unified deep modeling approach to simultaneous speech dereverberation and recognition for the reverb challenge <b>2017</b> ,		2
63	A Gender Mixture Detection Approach to Unsupervised Single-Channel Speech Separation Based on Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2017</b> , 25, 1535-1546	3.6	23
62	An End-to-End Deep Learning Approach to Simultaneous Speech Dereverberation and Acoustic Modeling for Robust Speech Recognition. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2017</b> , 11, 1289-1300	7.5	31
61	A unified DNN approach to speaker-dependent simultaneous speech enhancement and speech separation in low SNR environments. <i>Speech Communication</i> , <b>2017</b> , 95, 28-39	2.8	12
60	A transfer learning and progressive stacking approach to reducing deep model sizes with an application to speech enhancement <b>2017</b> ,		7
59	Hierarchical Bayesian combination of plug-in maximum a posteriori decoders in deep neural networks-based speech recognition and speaker adaptation. <i>Pattern Recognition Letters</i> , <b>2017</b> , 98, 1-7	4.7	8
58	A Reverberation-Time-Aware Approach to Speech Dereverberation Based on Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2017</b> , 25, 102-111	3.6	39
57	Bayesian Unsupervised Batch and Online Speaker Adaptation of Activation Function Parameters in Deep Models for Automatic Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2017</b> , 25, 64-75	3.6	7

56	Improving non-native mispronunciation detection and enriching diagnostic feedback with DNN-based speech attribute modeling <b>2016</b> ,		20
55	Automatic image region annotation through segmentation based visual semantic analysis and discriminative classification <b>2016</b> ,		3
54	A Keyword-Aware Language Modeling Approach to Spoken Keyword Search. <i>Journal of Signal Processing Systems</i> , <b>2016</b> , 82, 197-206	1.4	1
53	i-Vector Modeling of Speech Attributes for Automatic Foreign Accent Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2016</b> , 24, 29-41	3.6	14
52	Evaluation of sliding window correlation performance for characterizing dynamic functional connectivity and brain states. <i>NeuroImage</i> , <b>2016</b> , 133, 111-128	7.9	148
51	Unsupervised single-channel speech separation via deep neural network for different gender mixtures <b>2016</b> ,		7
50	A study on target feature activation and normalization and their impacts on the performance of DNN based speech dereverberation systems <b>2016</b> ,		9
49	Using tone-based extended recognition network to detect non-native Mandarin tone mispronunciations <b>2016</b> ,		2
48	Learning auxiliary categorical information for speech synthesis based on deep and recurrent neural networks <b>2016</b> ,		1
47	A Regression Approach to Single-Channel Speech Separation Via High-Resolution Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2016</b> , 24, 1424-1437	3.6	53
46	A Probabilistic Framework for Representing Dialog Systems and Entropy-Based Dialog Management Through Dynamic Stochastic State Evolution. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2015</b> , 23, 2026-2035	3.6	6
45	A keyword-aware grammar framework for LVCSR-based spoken keyword search <b>2015</b> ,		5
44	On frequency dependencies of sliding window correlation <b>2015</b> ,		8
43	Joint training of front-end and back-end deep neural networks for robust speech recognition <b>2015</b> ,		22
42	A Regression Approach to Speech Enhancement Based on Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2015</b> , 23, 7-19	3.6	509
41	An Experimental Study on Speech Enhancement Based on Deep Neural Networks. <i>IEEE Signal Processing Letters</i> , <b>2014</b> , 21, 65-68	3.2	407
40	A maximal figure-of-merit learning approach to maximizing mean average precision with deep neural network based classifiers <b>2014</b> ,		17
39	Cross-language transfer learning for deep neural network based speech enhancement <b>2014</b> ,		10

38	Speech separation based on improved deep neural networks with dual outputs of speech features for both target and interfering speakers <b>2014</b> ,		27
37	Global variance equalization for improving deep neural network based speech enhancement <b>2014</b> ,		10
36	Hermitian Polynomial for Speaker Adaptation of Connectionist Speech Recognition Systems. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 2152-2161		39
35	Reliable Accent-Specific Unit Generation With Discriminative Dynamic Gaussian Mixture Selection for Multi-Accent Chinese Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 2073-2084		2
34	A single-ensemble-based hybrid approach to clutter rejection combining bilinear Hankel with regression. <i>Journal of Medical Ultrasonics (2001)</i> , <b>2013</b> , 40, 99-105	1.4	1
33	Speech Recognition Using Long-Span Temporal Patterns in a Deep Network Model. <i>IEEE Signal Processing Letters</i> , <b>2013</b> , 20, 201-204	3.2	19
32	An Information-Extraction Approach to Speech Processing: Analysis, Detection, Verification, and Recognition. <i>Proceedings of the IEEE</i> , <b>2013</b> , 101, 1089-1115	14.3	29
31	Model-based margin estimation for hidden Markov model learning and generalisation. <i>IET Signal Processing</i> , <b>2013</b> , 7, 704-709	1.7	1
30	A study on cross-language knowledge integration in Mandarin LVCSR <b>2012</b> ,		3
29	Boosting attribute and phone estimation accuracies with deep neural networks for detection-based speech recognition <b>2012</b> ,		29
28	Preference Music Ratings Prediction Using Tokenization and Minimum Classification Error Training. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2011</b> , 19, 2294-2303		4
27	Detection-based accented speech recognition using articulatory features <b>2011</b> ,		3
26	Experimental studies on continuous speech recognition using neural architectures with adaptive hidden activation functions <b>2010</b> ,		4
25	A Comparison of Single- and Multi-Objective Programming Approaches to Problems with Multiple Design Objectives. <i>Journal of Signal Processing Systems</i> , <b>2010</b> , 61, 39-50	1.4	3
24	Multiple time resolution analysis of speech signal using MCE training with application to speech recognition <b>2009</b> ,		2
23	A phonetic feature based lattice rescoring approach to LVCSR <b>2009</b> ,		4
22	Ensemble speaker and speaking environment modeling approach with advanced online estimation process <b>2009</b> ,		5
21	A detection-based approach to broadcast news video story segmentation <b>2009</b> ,		9

20	MAP estimation of online mapping parameters in ensemble speaker and speaking environment modeling <b>2009</b> ,		1
19	Developments and directions in speech recognition and understanding, Part 1 [DSP Education]. <i>IEEE Signal Processing Magazine</i> , <b>2009</b> , 26, 75-80	9.4	121
18	Optimizing the Performance of Spoken Language Recognition With Discriminative Training. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2008</b> , 16, 1642-1653		4
17	A Flexible Classifier Design Framework Based on Multiobjective Programming. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2008</b> , 16, 779-789		3
16	An efficient gradient computation approach to discriminative fusion optimization in semantic concept detection <b>2008</b> ,		2
15	Toward a detector-based universal phone recognizer. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	19
14	Unsupervised anchor shot detection using multi-modal spectral clustering. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	7
13	Two extensions to ensemble speaker and speaking environment modeling for robust automatic speech recognition <b>2007</b> ,		3
12	A study on soft margin estimation for LVCSR <b>2007</b> ,		1
11	A Vector Space Modeling Approach to Spoken Language Identification. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2007</b> , 15, 271-284		109
10	Approximate Test Risk Bound Minimization Through Soft Margin Estimation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2007</b> , 15, 2393-2404		25
9	Boosting of Maximal Figure of Merit Classifiers for Automatic Image Annotation <b>2007</b> ,		6
8	Approximate Test Risk Minimization Through Soft Margin Estimation <b>2007</b> ,		7
7	Towards bottom-up continuous phone recognition <b>2007</b> ,		20
6	Language Recognition Based on Score Distribution Feature Vectors and Discriminative Classifier Fusion <b>2006</b> ,		5
5	A new approach to utterance verification based on neighborhood information in model space. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>2003</b> , 11, 425-434		12
4	A study on model-based error rate estimation for automatic speech recognition. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>2003</b> , 11, 581-589		8
3	A study on knowledge source integration for candidate rescoring in automatic speech recognition		1

2	An Iterative Constrained Optimization Approach to Classifier Design	2
1	SNR-Based Progressive Learning of Deep Neural Network for Speech Enhancement	26