

Chin-HuiLee

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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 Regression Approach to Speech Enhancement Based on Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015 , 23, 7-19	3.6	509
90	An Experimental Study on Speech Enhancement Based on Deep Neural Networks. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 65-68	3.2	407
89	Evaluation of sliding window correlation performance for characterizing dynamic functional connectivity and brain states. <i>NeuroImage</i> , 2016 , 133, 111-128	7.9	148
88	Developments and directions in speech recognition and understanding, Part 1 [DSP Education]. <i>IEEE Signal Processing Magazine</i> , 2009 , 26, 75-80	9.4	121
87	A Vector Space Modeling Approach to Spoken Language Identification. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007 , 15, 271-284		109
86	A deep learning approach to automatic teeth detection and numbering based on object detection in dental periapical films. <i>Scientific Reports</i> , 2019 , 9, 3840	4.9	75
85	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> , 2016 , 24, 1424-1437	3.6	53
84	Hermitian Polynomial for Speaker Adaptation of Connectionist Speech Recognition Systems. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013 , 21, 2152-2161		39
83	A Reverberation-Time-Aware Approach to Speech Dereverberation Based on Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017 , 25, 102-111	3.6	39
82	Convolutional-Recurrent Neural Networks for Speech Enhancement 2018 ,		39
81	On Mean Absolute Error for Deep Neural Network Based Vector-to-Vector Regression. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1485-1489	3.2	37
80	Deep Learning-Based Noise Reduction Approach to Improve Speech Intelligibility for Cochlear Implant Recipients. <i>Ear and Hearing</i> , 2018 , 39, 795-809	3.4	33
79	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> , 2017 , 11, 1289-1300	7.5	31
78	An Information-Extraction Approach to Speech Processing: Analysis, Detection, Verification, and Recognition. <i>Proceedings of the IEEE</i> , 2013 , 101, 1089-1115	14.3	29
77	Boosting attribute and phone estimation accuracies with deep neural networks for detection-based speech recognition 2012 ,		29
76	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> , 2019 , 27, 2080-2091	3.6	28
75	Speech separation based on improved deep neural networks with dual outputs of speech features for both target and interfering speakers 2014 ,		27

74	SNR-Based Progressive Learning of Deep Neural Network for Speech Enhancement		26
73	Approximate Test Risk Bound Minimization Through Soft Margin Estimation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007 , 15, 2393-2404		25
72	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> , 2017 , 25, 1535-1546	3.6	23
71	Joint training of front-end and back-end deep neural networks for robust speech recognition 2015 ,		22
70	Improving non-native mispronunciation detection and enriching diagnostic feedback with DNN-based speech attribute modeling 2016 ,		20
69	Towards bottom-up continuous phone recognition 2007 ,		20
68	Speech Recognition Using Long-Span Temporal Patterns in a Deep Network Model. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 201-204	3.2	19
67	Toward a detector-based universal phone recognizer. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	19
66	A maximal figure-of-merit learning approach to maximizing mean average precision with deep neural network based classifiers 2014 ,		17
65	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> , 2019 , 27, 1932-1943	3.6	14
64	i-Vector Modeling of Speech Attributes for Automatic Foreign Accent Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016 , 24, 29-41	3.6	14
63	A unified DNN approach to speaker-dependent simultaneous speech enhancement and speech separation in low SNR environments. <i>Speech Communication</i> , 2017 , 95, 28-39	2.8	12
62	A new approach to utterance verification based on neighborhood information in model space. <i>IEEE Transactions on Speech and Audio Processing</i> , 2003 , 11, 425-434		12
61	Analyzing Upper Bounds on Mean Absolute Errors for Deep Neural Network-Based Vector-to-Vector Regression. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 3411-3422	4.8	11
60	An iterative mask estimation approach to deep learning based multi-channel speech recognition. <i>Speech Communication</i> , 2019 , 106, 31-43	2.8	11
59	A Hybrid Approach to Combining Conventional and Deep Learning Techniques for Single-Channel Speech Enhancement and Recognition 2018 ,		11
58	Cross-language transfer learning for deep neural network based speech enhancement 2014 ,		10
57	Global variance equalization for improving deep neural network based speech enhancement 2014 ,		10

56	Decentralizing Feature Extraction with Quantum Convolutional Neural Network for Automatic Speech Recognition 2021 ,			10
55	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> , 2019 , 27, 1919-1931	3.6		9
54	A detection-based approach to broadcast news video story segmentation 2009 ,			9
53	A study on target feature activation and normalization and their impacts on the performance of DNN based speech dereverberation systems 2016 ,			9
52	Tensor-To-Vector Regression for Multi-Channel Speech Enhancement Based on Tensor-Train Network 2020 ,			8
51	Image region annotation based on segmentation and semantic correlation analysis. <i>IET Image Processing</i> , 2018 , 12, 1331-1337	1.7		8
50	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> , 2017 , 98, 1-7	4.7		8
49	On frequency dependencies of sliding window correlation 2015 ,			8
48	A study on model-based error rate estimation for automatic speech recognition. <i>IEEE Transactions on Speech and Audio Processing</i> , 2003 , 11, 581-589			8
47	Improving Mandarin Tone Recognition Based on DNN by Combining Acoustic and Articulatory Features Using Extended Recognition Networks. <i>Journal of Signal Processing Systems</i> , 2018 , 90, 1077-1087 ^{1.4}			7
46	A transfer learning and progressive stacking approach to reducing deep model sizes with an application to speech enhancement 2017 ,			7
45	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> , 2017 , 25, 64-75	3.6		7
44	Unsupervised anchor shot detection using multi-modal spectral clustering. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6		7
43	Approximate Test Risk Minimization Through Soft Margin Estimation 2007 ,			7
42	Unsupervised single-channel speech separation via deep neural network for different gender mixtures 2016 ,			7
41	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> , 2015 , 23, 2026-2035	3.6		6
40	Boosting of Maximal Figure of Merit Classifiers for Automatic Image Annotation 2007 ,			6
39	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> , 2021 , 29, 106-117	3.6		6

38	A keyword-aware grammar framework for LVCSR-based spoken keyword search 2015 ,		5
37	Ensemble speaker and speaking environment modeling approach with advanced online estimation process 2009 ,		5
36	Language Recognition Based on Score Distribution Feature Vectors and Discriminative Classifier Fusion 2006 ,		5
35	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> , 2019 , 27, 2012-2024	3.6	4
34	Preference Music Ratings Prediction Using Tokenization and Minimum Classification Error Training. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011 , 19, 2294-2303		4
33	Experimental studies on continuous speech recognition using neural architectures with [adaptive] hidden activation functions 2010 ,		4
32	A phonetic feature based lattice rescoring approach to LVCSR 2009 ,		4
31	Optimizing the Performance of Spoken Language Recognition With Discriminative Training. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 1642-1653		4
30	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> , 2021 , 29, 2617-2629	3.6	4
29	DNN Training Based on Classic Gain Function for Single-channel Speech Enhancement and Recognition 2019 ,		3
28	A Cross-Task Transfer Learning Approach to Adapting Deep Speech Enhancement Models to Unseen Background Noise Using Paired Senone Classifiers 2020 ,		3
27	A Multi-Target SNR-Progressive Learning Approach to Regression Based Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020 , 28, 1608-1619	3.6	3
26	Improving Deep Neural Network Based Speech Synthesis through Contextual Feature Parametrization and Multi-Task Learning. <i>Journal of Signal Processing Systems</i> , 2018 , 90, 1025-1037	1.4	3
25	Automatic image region annotation through segmentation based visual semantic analysis and discriminative classification 2016 ,		3
24	Detection-based accented speech recognition using articulatory features 2011 ,		3
23	A study on cross-language knowledge integration in Mandarin LVCSR 2012 ,		3
22	A Comparison of Single- and Multi-Objective Programming Approaches to Problems with Multiple Design Objectives. <i>Journal of Signal Processing Systems</i> , 2010 , 61, 39-50	1.4	3
21	A Flexible Classifier Design Framework Based on Multiobjective Programming. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 779-789		3

20	Two extensions to ensemble speaker and speaking environment modeling for robust automatic speech recognition 2007 ,		3
19	Improving Mandarin Tone Mispronunciation Detection for Non-Native Learners with Soft-Target Tone Labels and BLSTM-Based Deep Models 2018 ,		3
18	A unified deep modeling approach to simultaneous speech dereverberation and recognition for the reverb challenge 2017 ,		2
17	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> , 2013 , 21, 2073-2084		2
16	Multiple time resolution analysis of speech signal using MCE training with application to speech recognition 2009 ,		2
15	An efficient gradient computation approach to discriminative fusion optimization in semantic concept detection 2008 ,		2
14	An Iterative Constrained Optimization Approach to Classifier Design		2
13	Using tone-based extended recognition network to detect non-native Mandarin tone mispronunciations 2016 ,		2
12	Two-Stage Enhancement of Noisy and Reverberant Microphone Array Speech for Automatic Speech Recognition Systems Trained with Only Clean Speech 2018 ,		2
11	Correlating subword articulation with lip shapes for embedding aware audio-visual speech enhancement. <i>Neural Networks</i> , 2021 , 143, 171-182	9.1	2
10	Improving Audio-visual Speech Recognition Performance with Cross-modal Student-teacher Training 2019 ,		1
9	Performance Analysis for Tensor-Train Decomposition to Deep Neural Network Based Vector-to-Vector Regression 2020 ,		1
8	A Keyword-Aware Language Modeling Approach to Spoken Keyword Search. <i>Journal of Signal Processing Systems</i> , 2016 , 82, 197-206	1.4	1
7	A single-ensemble-based hybrid approach to clutter rejection combining bilinear Hankel with regression. <i>Journal of Medical Ultrasonics (2001)</i> , 2013 , 40, 99-105	1.4	1
6	Model-based margin estimation for hidden Markov model learning and generalisation. <i>IET Signal Processing</i> , 2013 , 7, 704-709	1.7	1
5	MAP estimation of online mapping parameters in ensemble speaker and speaking environment modeling 2009 ,		1
4	A study on soft margin estimation for LVCSR 2007 ,		1
3	A study on knowledge source integration for candidate rescoring in automatic speech recognition		1

- 2 A Two-Stage Approach to Device-Robust Acoustic Scene Classification **2021**, 1
- 1 Learning auxiliary categorical information for speech synthesis based on deep and recurrent neural networks **2016**, 1