

Chin-HuiLee

List of Publications by Year in descending order

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113
papers

4,182
citations

331259

21
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47
g-index

113
all docs

113
docs citations

113
times ranked

2570
citing authors

#	ARTICLE	IF	CITATIONS
1	A Regression Approach to Speech Enhancement Based on Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 7-19.	4.0	926
2	An Experimental Study on Speech Enhancement Based on Deep Neural Networks. IEEE Signal Processing Letters, 2014, 21, 65-68.	2.1	692
3	Evaluation of sliding window correlation performance for characterizing dynamic functional connectivity and brain states. NeuroImage, 2016, 133, 111-128.	2.1	226
4	A Vector Space Modeling Approach to Spoken Language Identification. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 271-284.	3.8	166
5	Developments and directions in speech recognition and understanding, Part 1 [DSP Education]. IEEE Signal Processing Magazine, 2009, 26, 75-80.	4.6	159
6	A deep learning approach to automatic teeth detection and numbering based on object detection in dental periapical films. Scientific Reports, 2019, 9, 3840.	1.6	142
7	On Mean Absolute Error for Deep Neural Network Based Vector-to-Vector Regression. IEEE Signal Processing Letters, 2020, 27, 1485-1489.	2.1	132
8	Convolutional-Recurrent Neural Networks for Speech Enhancement. , 2018, , .		84
9	A Regression Approach to Single-Channel Speech Separation Via High-Resolution Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1424-1437.	4.0	74
10	Speech Enhancement Based on Teacher-Student Deep Learning Using Improved Speech Presence Probability for Noise-Robust Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 2080-2091.	4.0	68
11	A Reverberation-Time-Aware Approach to Speech Dereverberation Based on Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 102-111.	4.0	64
12	Hermitian Polynomial for Speaker Adaptation of Connectionist Speech Recognition Systems. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 2152-2161.	3.8	61
13	Deep Learning-Based Noise Reduction Approach to Improve Speech Intelligibility for Cochlear Implant Recipients. Ear and Hearing, 2018, 39, 795-809.	1.0	60
14	Decentralizing Feature Extraction with Quantum Convolutional Neural Network for Automatic Speech Recognition. , 2021, , .		58
15	An End-to-End Deep Learning Approach to Simultaneous Speech Dereverberation and Acoustic Modeling for Robust Speech Recognition. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1289-1300.	7.3	52
16	SNR-Based Progressive Learning of Deep Neural Network for Speech Enhancement. , 0, , .		50
17	Boosting attribute and phone estimation accuracies with deep neural networks for detection-based speech recognition. , 2012, , .		48
18	Joint training of front-end and back-end deep neural networks for robust speech recognition. , 2015, , .		46

#	ARTICLE	IF	CITATIONS
19	Improving non-native mispronunciation detection and enriching diagnostic feedback with DNN-based speech attribute modeling. , 2016, , .		46
20	Speech separation based on improved deep neural networks with dual outputs of speech features for both target and interfering speakers. , 2014, , .		45
21	Approximate Test Risk Bound Minimization Through Soft Margin Estimation. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2393-2404.	3.8	42
22	An Information-Extraction Approach to Speech Processing: Analysis, Detection, Verification, and Recognition. Proceedings of the IEEE, 2013, 101, 1089-1115.	16.4	39
23	Toward a detector-based universal phone recognizer. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	35
24	A Gender Mixture Detection Approach to Unsupervised Single-Channel Speech Separation Based on Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1535-1546.	4.0	34
25	A maximal figure-of-merit learning approach to maximizing mean average precision with deep neural network based classifiers. , 2014, , .		32
26	A Cross-Entropy-Guided Measure (CEGM) for Assessing Speech Recognition Performance and Optimizing DNN-Based Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 106-117.	4.0	32
27	Analyzing Upper Bounds on Mean Absolute Errors for Deep Neural Network-Based Vector-to-Vector Regression. IEEE Transactions on Signal Processing, 2020, 68, 3411-3422.	3.2	31
28	Towards bottom-up continuous phone recognition. , 2007, , .		30
29	Speech Recognition Using Long-Span Temporal Patterns in a Deep Network Model. IEEE Signal Processing Letters, 2013, 20, 201-204.	2.1	29
30	A Theory on Deep Neural Network Based Vector-to-Vector Regression With an Illustration of Its Expressive Power in Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1932-1943.	4.0	25
31	Information Fusion in Attention Networks Using Adaptive and Multi-Level Factorized Bilinear Pooling for Audio-Visual Emotion Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2617-2629.	4.0	23
32	i-Vector Modeling of Speech Attributes for Automatic Foreign Accent Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 29-41.	4.0	22
33	A Two-Stage Approach to Device-Robust Acoustic Scene Classification. , 2021, , .		22
34	Global variance equalization for improving deep neural network based speech enhancement. , 2014, , .		21
35	A unified DNN approach to speaker-dependent simultaneous speech enhancement and speech separation in low SNR environments. Speech Communication, 2017, 95, 28-39.	1.6	21
36	A new approach to utterance verification based on neighborhood information in model space. IEEE Transactions on Speech and Audio Processing, 2003, 11, 425-434.	2.0	19

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37	An iterative mask estimation approach to deep learning based multi-channel speech recognition. <i>Speech Communication</i> , 2019, 106, 31-43.	1.6	18
38	A Study on Knowledge Source Integration for Candidate Rescoring in Automatic Speech Recognition. , 0, , .		17
39	A Hybrid Approach to Combining Conventional and Deep Learning Techniques for Single-Channel Speech Enhancement and Recognition. , 2018, , .		17
40	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.	4.0	17
41	Automatic Image Annotation through Multi-Topic Text Categorization. , 0, , .		16
42	The First Multimodal Information Based Speech Processing (Misp) Challenge: Data, Tasks, Baselines And Results. , 2022, , .		16
43	Cross-language transfer learning for deep neural network based speech enhancement. , 2014, , .		15
44	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.	4.0	15
45	Unsupervised single-channel speech separation via deep neural network for different gender mixtures. , 2016, , .		15
46	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.	4.0	14
47	A detection-based approach to broadcast news video story segmentation. , 2009, , .		13
48	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, 1012-1024.	4.0	13
49	Approximate Test Risk Minimization Through Soft Margin Estimation. , 2007, , .		12
50	A study on target feature activation and normalization and their impacts on the performance of DNN based speech dereverberation systems. , 2016, , .		12
51	A transfer learning and progressive stacking approach to reducing deep model sizes with an application to speech enhancement. , 2017, , .		12
52	Image region annotation based on segmentation and semantic correlation analysis. <i>IET Image Processing</i> , 2018, 12, 1331-1337.	1.4	12
53	Tensor-To-Vector Regression for Multi-Channel Speech Enhancement Based on Tensor-Train Network. , 2020, , .		12
54	Correlating subword articulation with lip shapes for embedding aware audio-visual speech enhancement. <i>Neural Networks</i> , 2021, 143, 171-182.	3.3	12

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55	A study on model-based error rate estimation for automatic speech recognition. IEEE Transactions on Speech and Audio Processing, 2003, 11, 581-589.	2.0	11
56	Unsupervised anchor shot detection using multi-modal spectral clustering. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	11
57	Detection-based accented speech recognition using articulatory features. , 2011, , .		11
58	Improving Mandarin Tone Recognition Based on DNN by Combining Acoustic and Articulatory Features Using Extended Recognition Networks. Journal of Signal Processing Systems, 2018, 90, 1077-1087.	1.4	11
59	Boosting of Maximal Figure of Merit Classifiers for Automatic Image Annotation. , 2007, , .		10
60	On frequency dependencies of sliding window correlation. , 2015, , .		10
61	A study on soft margin estimation for LVCSR. , 2007, , .		9
62	Ensemble speaker and speaking environment modeling approach with advanced online estimation process. , 2009, , .		9
63	Hierarchical Bayesian combination of plug-in maximum a posteriori decoders in deep neural networks-based speech recognition and speaker adaptation. Pattern Recognition Letters, 2017, 98, 1-7.	2.6	9
64	Bayesian Unsupervised Batch and Online Speaker Adaptation of Activation Function Parameters in Deep Models for Automatic Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 64-75.	4.0	9
65	A Progressive Learning Approach to Adaptive Noise and Speech Estimation for Speech Enhancement and Noisy Speech Recognition. , 2021, , .		9
66	Two extensions to ensemble speaker and speaking environment modeling for robust automatic speech recognition. , 2007, , .		8
67	A phonetic feature based lattice rescoring approach to LVCSR. , 2009, , .		8
68	Improving Audio-visual Speech Recognition Performance with Cross-modal Student-teacher Training. , 2019, , .		8
69	A Cross-Task Transfer Learning Approach to Adapting Deep Speech Enhancement Models to Unseen Background Noise Using Paired Senone Classifiers. , 2020, , .		8
70	Language Recognition Based on Score Distribution Feature Vectors and Discriminative Classifier Fusion. , 2006, , .		7
71	Optimizing the Performance of Spoken Language Recognition With Discriminative Training. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1642-1653.	3.8	7
72	A study on cross-language knowledge integration in Mandarin LVCSR. , 2012, , .		7

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73	A keyword-aware grammar framework for LVCSR-based spoken keyword search. , 2015, , .		7
74	Reliable Accent-Specific Unit Generation With Discriminative Dynamic Gaussian Mixture Selection for Multi-Accent Chinese Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 2073-2084.	3.8	6
75	Two-Stage Enhancement of Noisy and Reverberant Microphone Array Speech for Automatic Speech Recognition Systems Trained with Only Clean Speech. , 2018, , .		6
76	A Flexible Classifier Design Framework Based on Multiobjective Programming. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 779-789.	3.8	5
77	Experimental studies on continuous speech recognition using neural architectures with "adaptive" hidden activation functions. , 2010, , .		5
78	Preference Music Ratings Prediction Using Tokenization and Minimum Classification Error Training. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2294-2303.	3.8	5
79	Automatic image region annotation through segmentation based visual semantic analysis and discriminative classification. , 2016, , .		5
80	Improving Deep Neural Network Based Speech Synthesis through Contextual Feature Parametrization and Multi-Task Learning. Journal of Signal Processing Systems, 2018, 90, 1025-1037.	1.4	5
81	An efficient gradient computation approach to discriminative fusion optimization in semantic concept detection. , 2008, , .		4
82	Multiple time resolution analysis of speech signal using MCE training with application to speech recognition. , 2009, , .		4
83	A Comparison of Single- and Multi-Objective Programming Approaches to Problems with Multiple Design Objectives. Journal of Signal Processing Systems, 2010, 61, 39-50.	1.4	4
84	A fusion approach to spoken language identification based on combining multiple phone recognizers and speech attribute detectors. , 2014, , .		4
85	A unified deep modeling approach to simultaneous speech dereverberation and recognition for the reverb challenge. , 2017, , .		4
86	Speaker verification based on combining speaker individuality parameter selection and decision. , 2005, , .		3
87	An Iterative Constrained Optimization Approach to Classifier Design. , 0, , .		3
88	MAP estimation of online mapping parameters in ensemble speaker and speaking environment modeling. , 2009, , .		3
89	A Keyword-Aware Language Modeling Approach to Spoken Keyword Search. Journal of Signal Processing Systems, 2016, 82, 197-206.	1.4	3
90	Improving Mandarin Tone Mispronunciation Detection for Non-Native Learners with Soft-Target Tone Labels and BLSTM-Based Deep Models. , 2018, , .		3

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91	DNN Training Based on Classic Gain Function for Single-channel Speech Enhancement and Recognition. , 2019, , .		3
92	A Variational Bayesian Approach to Learning Latent Variables for Acoustic Knowledge Transfer. , 2022, , .		3
93	A hidden Markov model based approach to music segmentation and identification. , 0, , .		2
94	An unsupervised learning approach to musical event detection. , 0, , .		2
95	An incremental learning framework combining sample confidence and discrimination with an application to automatic image annotation. , 2009, , .		2
96	A study on hidden Markov model's generalization capability for speech recognition. , 2009, , .		2
97	Using tone-based extended recognition network to detect non-native Mandarin tone mispronunciations. , 2016, , .		2
98	Performance Analysis for Tensor-Train Decomposition to Deep Neural Network Based Vector-to-Vector Regression. , 2020, , .		2
99	A Cross-Entropy-Guided (CEG) Measure for Speech Enhancement Front-End Assessing Performances of Back-End Automatic Speech Recognition. , 0, , .		2
100	Discriminative learning for optimizing detection performance in spoken language recognition. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
101	A hierarchical grid feature representation framework for automatic image annotation. , 2009, , .		1
102	A single-ensemble-based hybrid approach to clutter rejection combining bilinear Hankel with regression. Journal of Medical Ultrasonics (2001), 2013, 40, 99-105.	0.6	1
103	Model-based margin estimation for hidden Markov model learning and generalisation. IET Signal Processing, 2013, 7, 704-709.	0.9	1
104	Learning auxiliary categorical information for speech synthesis based on deep and recurrent neural networks. , 2016, , .		1
105	Using Paralinguistic Information to Disambiguate User Intentions for Distinguishing Phrase Structure and Sarcasm in Spoken Dialog Systems. , 2021, , .		1
106	KL-Divergence Regularized Deep Neural Network Adaptation for Low-Resource Speaker-Dependent Speech Enhancement. , 0, , .		1
107	Indexing with musical events and its application to content-based music identification. , 2004, , .		0
108	CCPR 2008 Keynote Speech 2. , 2008, , .		0

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109	A survey on recent progress in the ASAT/SIRKUS paradigm. , 2010, , .		0
110	Optimization of average precision with Maximal Figure-of-Merit Learning. , 2011, , .		0
111	Discriminative dynamic Gaussian mixture selection with enhanced robustness and performance for multi-accent speech recognition. , 2012, , .		0
112	Per-Exemplar Fusion Learning for Video Retrieval and Recounting. , 2012, , .		0
113	An experimental study on structural-MAP approaches to implementing very large vocabulary speech recognition systems for real-world tasks. , 2013, , .		0