

# Yu Tsao

## List of Publications by Year in descending order

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220  
papers

4,544  
citations

186254

28  
h-index

206102

48  
g-index

222  
all docs

222  
docs citations

222  
times ranked

3029  
citing authors

#	ARTICLE	IF	CITATIONS
1	Speech enhancement based on deep denoising autoencoder. , 0, , .		333
2	End-to-End Waveform Utterance Enhancement for Direct Evaluation Metrics Optimization by Fully Convolutional Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1570-1584.	5.8	203
3	Noise Reduction in ECG Signals Using Fully Convolutional Denoising Autoencoders. IEEE Access, 2019, 7, 60806-60813.	4.2	186
4	Audio-Visual Speech Enhancement Using Multimodal Deep Convolutional Neural Networks. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 117-128.	4.9	151
5	Voice conversion from non-parallel corpora using variational auto-encoder. , 2016, , .		145
6	Detection of Pathological Voice Using Cepstrum Vectors: A Deep Learning Approach. Journal of Voice, 2019, 33, 634-641.	1.5	143
7	Raw waveform-based speech enhancement by fully convolutional networks. , 2017, , .		133
8	ASVspoof 2019: A large-scale public database of synthesized, converted and replayed speech. Computer Speech and Language, 2020, 64, 101114.	4.3	130
9	S1 and S2 Heart Sound Recognition Using Deep Neural Networks. IEEE Transactions on Biomedical Engineering, 2017, 64, 372-380.	4.2	128
10	Voice Conversion from Unaligned Corpora Using Variational Autoencoding Wasserstein Generative Adversarial Networks. , 0, , .		125
11	A recommendation mechanism for contextualized mobile advertising. Expert Systems With Applications, 2003, 24, 399-414.	7.6	113
12	SNR-Aware Convolutional Neural Network Modeling for Speech Enhancement. , 0, , .		102
13	Learning Transportation Modes From Smartphone Sensors Based on Deep Neural Network. IEEE Sensors Journal, 2017, 17, 6111-6118.	4.7	92
14	MOSNet: Deep Learning-Based Objective Assessment for Voice Conversion. , 0, , .		92
15	Overall survival prediction of non-small cell lung cancer by integrating microarray and clinical data with deep learning. Scientific Reports, 2020, 10, 4679.	3.3	89
16	Complex spectrogram enhancement by convolutional neural network with multi-metrics learning. , 2017, , .		85
17	A Deep Denoising Autoencoder Approach to Improving the Intelligibility of Vocoded Speech in Cochlear Implant Simulation. IEEE Transactions on Biomedical Engineering, 2017, 64, 1568-1578.	4.2	81
18	Quality-Net: An End-to-End Non-intrusive Speech Quality Assessment Model Based on BLSTM. , 0, , .		75

#	ARTICLE	IF	CITATIONS
19	Deep Learning-Based Noise Reduction Approach to Improve Speech Intelligibility for Cochlear Implant Recipients. <i>Ear and Hearing</i> , 2018, 39, 795-809.	2.1	60
20	Evaluating Indoor Positioning Systems in a Shopping Mall: The Lessons Learned From the IPIN 2018 Competition. <i>IEEE Access</i> , 2019, 7, 148594-148628.	4.2	60
21	Off-Line Evaluation of Mobile-Centric Indoor Positioning Systems: The Experiences from the 2017 IPIN Competition. <i>Sensors</i> , 2018, 18, 487.	3.8	55
22	Transportation Modes Classification Using Sensors on Smartphones. <i>Sensors</i> , 2016, 16, 1324.	3.8	51
23	Forecasting Air Quality in Taiwan by Using Machine Learning. <i>Scientific Reports</i> , 2020, 10, 4153.	3.3	50
24	WaveCRN: An Efficient Convolutional Recurrent Neural Network for End-to-End Speech Enhancement. <i>IEEE Signal Processing Letters</i> , 2020, 27, 2149-2153.	3.6	45
25	Improving biodiversity assessment via unsupervised separation of biological sounds from long-duration recordings. <i>Scientific Reports</i> , 2017, 7, 4547.	3.3	41
26	Recurrent neural network based language model personalization by social network crowdsourcing. , 0, , .		40
27	Generalized maximum a posteriori spectral amplitude estimation for speech enhancement. <i>Speech Communication</i> , 2016, 76, 112-126.	2.8	39
28	Learning With Learned Loss Function: Speech Enhancement With Quality-Net to Improve Perceptual Evaluation of Speech Quality. <i>IEEE Signal Processing Letters</i> , 2020, 27, 26-30.	3.6	39
29	Experimental Study on Extreme Learning Machine Applications for Speech Enhancement. <i>IEEE Access</i> , 2017, 5, 25542-25554.	4.2	38
30	The IPIN 2019 Indoor Localisation Competition-Description and Results. <i>IEEE Access</i> , 2020, 8, 206674-206718.	4.2	37
31	An Ensemble Speaker and Speaking Environment Modeling Approach to Robust Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009, 17, 1025-1037.	3.2	36
32	Conditional Diffusion Probabilistic Model for Speech Enhancement. , 2022, , .		36
33	Source separation in ecoacoustics: a roadmap towards versatile soundscape information retrieval. <i>Remote Sensing in Ecology and Conservation</i> , 2020, 6, 236-247.	4.3	34
34	Speech enhancement using segmental nonnegative matrix factorization. , 2014, , .		33
35	Channel State Reconstruction Using Multilevel Discrete Wavelet Transform for Improved Fingerprinting-Based Indoor Localization. <i>IEEE Sensors Journal</i> , 2016, 16, 7784-7791.	4.7	33
36	Joint Dictionary Learning-Based Non-Negative Matrix Factorization for Voice Conversion to Improve Speech Intelligibility After Oral Surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2584-2594.	4.2	31

#	ARTICLE	IF	CITATIONS
37	A Smartphone-Based Multi-Functional Hearing Assistive System to Facilitate Speech Recognition in the Classroom. IEEE Access, 2017, 5, 10339-10351.	4.2	30
38	Bone-conducted speech enhancement using deep denoising autoencoder. Speech Communication, 2018, 104, 106-112.	2.8	30
39	Dress With Style: Learning Style From Joint Deep Embedding of Clothing Styles and Body Shapes. IEEE Transactions on Multimedia, 2021, 23, 365-377.	7.2	30
40	Time-Domain Multi-Modal Bone/Air Conducted Speech Enhancement. IEEE Signal Processing Letters, 2020, 27, 1035-1039.	3.6	27
41	Multichannel Speech Enhancement by Raw Waveform-Mapping Using Fully Convolutional Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1888-1900.	5.8	27
42	Comparison of passive acoustic soniferous fish monitoring with supervised and unsupervised approaches. Journal of the Acoustical Society of America, 2018, 143, EL278-EL284.	1.1	26
43	A Mobile Phone-Based Approach for Hearing Screening of School-Age Children: Cross-Sectional Validation Study. JMIR MHealth and UHealth, 2019, 7, e12033.	3.7	26
44	Voice Conversion Based on Cross-Domain Features Using Variational Auto Encoders. , 2018, , .		24
45	Wavelet Speech Enhancement Based on Nonnegative Matrix Factorization. IEEE Signal Processing Letters, 2016, 23, 1101-1105.	3.6	23
46	Blind Monaural Source Separation on Heart and Lung Sounds Based on Periodic-Coded Deep Autoencoder. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3203-3214.	6.3	23
47	Unsupervised Representation Disentanglement Using Cross Domain Features and Adversarial Learning in Variational Autoencoder Based Voice Conversion. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 468-479.	4.9	22
48	Sparse representation based on a bag of spectral exemplars for acoustic event detection. , 2014, , .		21
49	Locally Linear Embedding for Exemplar-Based Spectral Conversion. , 0, , .		20
50	Robust Voice Activity Detection Algorithm Based on Feature of Frequency Modulation of Harmonics and Its DSP Implementation. IEICE Transactions on Information and Systems, 2015, E98.D, 1808-1817.	0.7	19
51	Ensemble modeling of denoising autoencoder for speech spectrum restoration. , 0, , .		19
52	Personalizing Recurrent-Neural-Network-Based Language Model by Social Network. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 519-530.	5.8	18
53	A Novel LSTM-Based Speech Preprocessor for Speaker Diarization in Realistic Mismatch Conditions. , 2018, , .		18
54	Noise Adaptive Speech Enhancement Using Domain Adversarial Training. , 0, , .		18

#	ARTICLE	IF	CITATIONS
55	A Study on Knowledge Source Integration for Candidate Rescoring in Automatic Speech Recognition. , 0, , .		17
56	Reinforcement Learning Based Speech Enhancement for Robust Speech Recognition. , 2019, , .		17
57	Speech Enhancement Based on Denoising Autoencoder With Multi-Branched Encoders. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2756-2769.	5.8	17
58	Multimodal Deep Learning Framework for Image Popularity Prediction on Social Media. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 679-692.	3.8	17
59	A Transfer Probabilistic Collective Factorization Model to Handle Sparse Data in Collaborative Filtering. , 2014, , .		16
60	Compensating for Orientation Mismatch in Robust Wi-Fi Localization Using Histogram Equalization. IEEE Transactions on Vehicular Technology, 2015, 64, 5210-5220.	6.3	16
61	Audio-visual speech enhancement using deep neural networks. , 2016, , .		16
62	Adaptive Noise Cancellation Using Deep Cerebellar Model Articulation Controller. IEEE Access, 2018, 6, 37395-37402.	4.2	16
63	Demographic and Symptomatic Features of Voice Disorders and Their Potential Application in Classification Using Machine Learning Algorithms. Folia Phoniatrica Et Logopaedica, 2018, 70, 174-182.	1.1	16
64	Increasing Compactness of Deep Learning Based Speech Enhancement Models With Parameter Pruning and Quantization Techniques. IEEE Signal Processing Letters, 2019, 26, 1887-1891.	3.6	16
65	Automatic recognition of murmurs of ventricular septal defect using convolutional recurrent neural networks with temporal attentive pooling. Scientific Reports, 2020, 10, 21797.	3.3	16
66	Self-Supervised Denoising Autoencoder with Linear Regression Decoder for Speech Enhancement. , 2020, , .		16
67	Speaker-Aware Deep Denoising Autoencoder with Embedded Speaker Identity for Speech Enhancement. , 0, , .		16
68	SmartHear: A Smartphone-Based Remote Microphone Hearing Assistive System Using Wireless Technologies. IEEE Systems Journal, 2018, 12, 20-29.	4.6	15
69	Segmental eigenvoice with delicate eigenspace for improved speaker adaptation. IEEE Transactions on Speech and Audio Processing, 2005, 13, 399-411.	1.5	14
70	An investigation of spectral restoration algorithms for deep neural networks based noise robust speech recognition. , 0, , .		14
71	Ensemble of machine learning and acoustic segment model techniques for speech emotion and autism spectrum disorders recognition. , 0, , .		14
72	Speech enhancement using generalized maximum a posteriori spectral amplitude estimator. , 2013, , .		13

#	ARTICLE	IF	CITATIONS
73	Incorporating global variance in the training phase of GMM-based voice conversion. , 2013, , .		13
74	Multi-style learning with denoising autoencoders for acoustic modeling in the internet of things (IoT). Computer Speech and Language, 2017, 46, 481-495.	4.3	13
75	Regularization of neural network model with distance metric learning for i-vector based spoken language identification. Computer Speech and Language, 2017, 44, 48-60.	4.3	13
76	Suppression by Selecting Wavelets for Feature Compression in Distributed Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 564-579.	5.8	13
77	A linear regression model with dynamic pulse transit time features for noninvasive blood pressure prediction. , 2016, , .		12
78	Auditory Perception, Suprasegmental Speech Processing, and Vocabulary Development in Chinese Preschoolers. Perceptual and Motor Skills, 2016, 123, 365-382.	1.3	12
79	Combining acoustic signals and medical records to improve pathological voice classification. APSIPA Transactions on Signal and Information Processing, 2019, 8, .	3.3	12
80	New Templated Ostwald Ripening Process of Mesostructured FeOOH for Thirdâ€Harmonic Generation Bioimaging. Small, 2019, 15, 1805086.	10.0	12
81	Improving the Intelligibility of Speech for Simulated Electric and Acoustic Stimulation Using Fully Convolutional Neural Networks. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 184-195.	4.9	12
82	Effects of Adaptation Rate and Noise Suppression on the Intelligibility of Compressed-Envelope Based Speech. PLoS ONE, 2015, 10, e0133519.	2.5	12
83	Generative Adversarial Networks for Unpaired Voice Transformation on Impaired Speech. , 0, , .		12
84	Improved Lite Audio-Visual Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1345-1359.	5.8	12
85	Computing biodiversity change via a soundscape monitoring network. , 2017, , .		11
86	Garment Detectives: Discovering Clothes and Its Genre in Consumer Photos. , 2019, , .		11
87	Robust S1 and S2 heart sound recognition based on spectral restoration and multi-style training. Biomedical Signal Processing and Control, 2019, 49, 173-180.	5.7	11
88	Ensemble Hierarchical Extreme Learning Machine for Speech Dereverberation. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 744-758.	3.8	11
89	Lite Audio-Visual Speech Enhancement. , 0, , .		11
90	An acoustic segment model approach to incorporating temporal information into speaker modeling for text-independent speaker recognition. , 2010, , .		10

#	ARTICLE	IF	CITATIONS
91	Robust Wi-Fi location fingerprinting against device diversity based on spatial mean normalization. , 2013, , .		10
92	Acoustic Echo Cancellation Using a Vector-Space-Based Adaptive Filtering Algorithm. IEEE Signal Processing Letters, 2015, 22, 351-355.	3.6	10
93	Assessing the perceptual contributions of level-dependent segments to sentence intelligibility. Journal of the Acoustical Society of America, 2016, 140, 3745-3754.	1.1	10
94	Speech Dereverberation Based on Integrated Deep and Ensemble Learning Algorithm. , 2018, , .		10
95	An ensemble modeling approach to joint characterization of speaker and speaking environments. , 0, , .		10
96	Ensemble speaker and speaking environment modeling approach with advanced online estimation process. , 2009, , .		9
97	Evaluation of generalized maximum a posteriori spectral amplitude (GMAPA) speech enhancement algorithm in hearing aids. , 2013, , .		9
98	Improving denoising auto-encoder based speech enhancement with the speech parameter generation algorithm. , 2015, , .		9
99	Maximum Entropy Learning with Deep Belief Networks. Entropy, 2016, 18, 251.	2.2	9
100	A Study on Speech Enhancement Using Exponent-Only Floating Point Quantized Neural Network (EOFP-QNN). , 2018, , .		9
101	Auditory identification of frequency-modulated sweeps and reading difficulties in Chinese. Research in Developmental Disabilities, 2019, 86, 53-61.	2.2	9
102	Refined WaveNet Vocoder for Variational Autoencoder Based Voice Conversion. , 2019, , .		9
103	Sensing ecosystem dynamics via audio source separation: A case study of marine soundscapes off northeastern Taiwan. PLoS Computational Biology, 2021, 17, e1008698.	3.2	9
104	Incorporating Broad Phonetic Information for Speech Enhancement. , 0, , .		9
105	Two extensions to ensemble speaker and speaking environment modeling for robust automatic speech recognition. , 2007, , .		8
106	Incorporating local information of the acoustic environments to MAP-based feature compensation and acoustic model adaptation. Computer Speech and Language, 2014, 28, 709-726.	4.3	8
107	Track-Clustering Error Evaluation for Track-Based Multi-camera Tracking System Employing Human Re-identification. , 2017, , .		8
108	Adaptive Wiener Gain to Improve Sound Quality on Nonnegative Matrix Factorization-Based Noise Reduction System. IEEE Access, 2019, 7, 43286-43297.	4.2	8

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109	Subspace-Based Representation and Learning for Phonotactic Spoken Language Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 3065-3079.	5.8	8
110	A study on separation between acoustic models and its applications. , 0, , .		8
111	IA-NET: Acceleration and Compression of Speech Enhancement Using Integer-Adder Deep Neural Network. , 0, , .		8
112	A MAP-based Online Estimation Approach to Ensemble Speaker and Speaking Environment Modeling. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 403-416.	5.8	7
113	Discriminative autoencoders for speaker verification. , 2017, , .		7
114	Computation-Performance Optimization of Convolutional Neural Networks With Redundant Filter Removal. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1908-1921.	5.4	7
115	A Study of Joint Effect on Denoising Techniques and Visual Cues to Improve Speech Intelligibility in Cochlear Implant Simulation. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 984-994.	3.8	7
116	Exploring mutual information for GMM-based spectral conversion. , 2012, , .		6
117	Effects of noise suppression and envelope dynamic range compression on the intelligibility of vocoded sentences for a tonal language. Journal of the Acoustical Society of America, 2017, 142, 1157-1166.	1.1	6
118	A deep learning based noise reduction approach to improve speech intelligibility for cochlear implant recipients in the presence of competing speech noise. , 2017, , .		6
119	Listening to the Deep: Exploring Marine Soundscape Variability by Information Retrieval Techniques. , 2018, , .		6
120	Ensemble and Multimodal Learning for Pathological Voice Classification. , 2021, 5, 1-4.		6
121	A study of mutual information for GMM-based spectral conversion. , 0, , .		6
122	Specialized Speech Enhancement Model Selection Based on Learned Non-Intrusive Quality Assessment Metric. , 0, , .		6
123	A study on cepstral sub-band normalization for robust ASR. , 2012, , .		5
124	A probabilistic interpretation for artificial neural network-based voice conversion. , 2015, , .		5
125	Speech Enhancement Based on Reducing the Detail Portion of Speech Spectrograms in Modulation Domain via DiscreteWavelet Transform. , 2018, , .		5
126	Deep Denoising Autoencoder Based Post Filtering for Speech Enhancement. , 2018, , .		5

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127	Subjective Feedback-based Neural Network Pruning for Speech Enhancement. , 2019, , .		5
128	Domain-Adaptive Fall Detection Using Deep Adversarial Training. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1243-1251.	4.9	5
129	Adaptive subspace-constrained diagonal loading. , 2016, , .		5
130	Temporal Attentive Pooling for Acoustic Event Detection. , 0, , .		5
131	Investigation of F0 Conditioning and Fully Convolutional Networks in Variational Autoencoder Based Voice Conversion. , 0, , .		5
132	Continuous Speech for Improved Learning Pathological Voice Disorders. IEEE Open Journal of Engineering in Medicine and Biology, 2022, 3, 25-33.	2.3	5
133	EPG2S: Speech Generation and Speech Enhancement Based on Electropalatography and Audio Signals Using Multimodal Learning. IEEE Signal Processing Letters, 2022, 29, 2582-2586.	3.6	5
134	Feature normalization and selection for robust speaker state recognition. , 2011, , .		4
135	Temporal information in tone recognition. , 2015, , .		4
136	A discriminative post-filter for speech enhancement in hearing aids. , 2015, , .		4
137	Object-based on-line video summarization for internet of video things. , 2017, , .		4
138	Improving the performance of hearing aids in noisy environments based on deep learning technology. , 2018, 2018, 404-408.		4
139	Bone-Conducted Speech Enhancement Using Hierarchical Extreme Learning Machine. Lecture Notes in Electrical Engineering, 2021, , 153-162.	0.4	4
140	EMA2S: An End-to-End Multimodal Articulatory-to-Speech System. , 2021, , .		4
141	Unsupervised Neural Adaptation Model Based on Optimal Transport for Spoken Language Identification. , 2021, , .		4
142	Alleviating the over-smoothing problem in GMM-based voice conversion with discriminative training. , 0, , .		4
143	Exploring the Encoder Layers of Discriminative Autoencoders for LVCSR. , 0, , .		4
144	MAP estimation of online mapping parameters in ensemble speaker and speaking environment modeling. , 2009, , .		3

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145	Soft margin estimation on improving environment structures for ensemble speaker and speaking environment modeling. , 2009, , .		3
146	An environment structuring framework to facilitating suitable prior density estimation for MAPLR on robust speech recognition. , 2010, , .		3
147	A linear projection approach to environment modeling for robust speech recognition. , 2012, , .		3
148	Rapid Converging M-Max Partial Update Least Mean Square Algorithms with New Variable Step-Size Methods. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 2650-2657.	0.3	3
149	A deep neural network based approach to mandarin consonant/vowel separation. , 2015, , .		3
150	Ensemble environment modeling using affine transform group. Speech Communication, 2015, 68, 55-68.	2.8	3
151	A pseudo-task design in multi-task learning deep neural network for speaker recognition. , 2016, , .		3
152	Dictionary update for NMF-based voice conversion using an encoder-decoder network. , 2016, , .		3
153	Modeling speech intelligibility with recovered envelope from temporal fine structure stimulus. Speech Communication, 2016, 81, 120-128.	2.8	3
154	Enhancement and Analysis of Conversational Speech: JSALT 2017. , 2018, , .		3
155	Toward Automating Oral Presentation Scoring During Principal Certification Program Using Audio-Video Low-Level Behavior Profiles. IEEE Transactions on Affective Computing, 2019, 10, 552-567.	8.3	3
156	Pair-Wise Distance Metric Learning of Neural Network Model for Spoken Language Identification. , 0, , .		3
157	Improving the ensemble speaker and speaking environment modeling approach by enhancing the precision of the online estimation process. , 0, , .		3
158	Discriminative Autoencoders for Acoustic Modeling. , 0, , .		3
159	SEOF-Net: Compression and Acceleration of Deep Neural Networks for Speech Enhancement Using Sign-Exponent-Only Floating-Points. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1016-1031.	5.8	3
160	Speech Enhancement with Zero-Shot Model Selection. , 2021, , .		3
161	HASA-Net: A Non-Intrusive Hearing-Aid Speech Assessment Network. , 2021, , .		3
162	Speech Recovery For Real-World Self-Powered Intermittent Devices. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
163	Acoustic feature conversion using a polynomial based feature transferring algorithm. , 2014, , .		2
164	Robust anchorperson detection based on audio streams using a hybrid I-vector and DNN system. , 2014, , .		2
165	Temporal alignment for deep neural networks. , 2015, , .		2
166	Nonnegative matrix factorization-based frequency lowering technology for Mandarin-speaking hearing aid users. , 2016, , .		2
167	Hearing aids APP design based on deep learning technology. , 2018, , .		2
168	Automatic Detection of Speech Under Cold Using Discriminative Autoencoders and Strength Modeling with Multiple Sub-Dictionary Generation. , 2018, , .		2
169	Architecture Design of Convolutional Neural Networks for Face Detection on an FPGA Platform. , 2018, , .		2
170	Attention-Based Multi-Task Learning for Speech-Enhancement and Speaker-Identification in Multi-Speaker Dialogue Scenario. , 2021, , .		2
171	Adaptive Dynamic Range Compression for Improving Envelope-Based Speech Perception: Implications for Cochlear Implants. , 2017, , 191-214.		2
172	Minimization of Regression and Ranking Losses with Shallow Neural Networks on Automatic Sincerity Evaluation. , 0, , .		2
173	A Post-Filtering Approach Based on Locally Linear Embedding Difference Compensation for Speech Enhancement. , 0, , .		2
174	Wavelet Speech Enhancement Based on Robust Principal Component Analysis. , 0, , .		2
175	An adaptive envelope compression strategy for speech processing in cochlear implants. , 0, , .		2
176	Automatic speech recognition with primarily temporal envelope information. , 0, , .		2
177	Ensemble of machine learning algorithms for cognitive and physical speaker load detection. , 0, , .		2
178	Exemplar-Based Spectral Detail Compensation for Voice Conversion. , 0, , .		2
179	Predicting the Travel Distance of Patients to Access Healthcare Using Deep Neural Networks. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-11.	3.7	2
180	CITISEN: A Deep Learning-Based Speech Signal-Processing Mobile Application. IEEE Access, 2022, 10, 46082-46099.	4.2	2

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181	A programmable analog radial-basis-function based classifier. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
182	Increasing discriminative capability on MAP-based mapping function estimation for acoustic model adaptation. , 2011, , .		1
183	Sparse maximum entropy deep belief nets. , 2013, , .		1
184	Filtering on the temporal probability sequence in histogram equalization for robust speech recognition. , 2013, , .		1
185	Effect of adaptive envelope compression in simulated electric hearing in reverberation. , 2014, , .		1
186	Variable Selection Linear Regression for Robust Speech Recognition. IEICE Transactions on Information and Systems, 2014, E97.D, 1477-1487.	0.7	1
187	A new frequency lowering technique for Mandarin-speaking hearing aid users. , 2015, , .		1
188	Incorporating local environment information with ensemble neural networks to robust automatic speech recognition. , 2016, , .		1
189	A locally linear embedding based postfiltering approach for speech enhancement. , 2017, , .		1
190	Coral Reef Soundscape to Measure the Species Distribution and Biodiversity. , 2018, , .		1
191	Audio-Visual Speech Enhancement using Hierarchical Extreme Learning Machine. , 2019, , .		1
192	Investigation of Neural Network Approaches for Unified Spectral and Prosodic Feature Enhancement. , 2019, , .		1
193	Atypical Frequency Sweep Processing in Chinese Children With Reading Difficulties: Evidence From Magnetoencephalography. Frontiers in Psychology, 2020, 11, 1649.	2.1	1
194	MoEVC: A Mixture of Experts Voice Conversion System With Sparse Gating Mechanism for Online Computation Acceleration. , 2021, , .		1
195	Clustering-based i-vector formulation for speaker recognition. , 0, , .		1
196	Class-Wise Centroid Distance Metric Learning for Acoustic Event Detection. , 0, , .		1
197	Coupling a Generative Model With a Discriminative Learning Framework for Speaker Verification. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3631-3641.	5.8	1
198	SVSNet: An End-to-End Speaker Voice Similarity Assessment Model. IEEE Signal Processing Letters, 2022, 29, 767-771.	3.6	1

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199	Neural correlates of individual differences in predicting ambiguous sounds comprehension level. <i>NeuroImage</i> , 2022, 251, 119012.	4.2	1
200	A sampling-based environment population projection approach for rapid acoustic model adaptation. , 2011, , .		0
201	Acoustic space partition based on broad phonetic class for ensemble acoustic modeling. , 2012, , .		0
202	Spectral patch based sparse coding for acoustic event detection. , 2014, , .		0
203	Multimodal arousal rating using unsupervised fusion technique. , 2015, , .		0
204	Improving the performance of speech perception in noisy environment based on an FAME strategy. , 2016, , .		0
205	A study of mobile advertisement recommendation using real big data from AdLocus. , 2016, , .		0
206	Speech enhancement via ensemble modeling NMF adaptation. , 2016, , .		0
207	Improving the Performance of Noise Reduction in Hearing Aids Based on the Genetic Algorithm. <i>IFMBE Proceedings</i> , 2016, , 209-214.	0.3	0
208	Leveraging nonnegative matrix factorization in processing the temporal modulation spectrum for speech enhancement. , 2016, , .		0
209	Temporal Modulation Spectral Restoration for Robust Speech Recognition. , 2016, , .		0
210	Fast locally linear embedding algorithm for exemplar-based voice conversion. , 2017, , .		0
211	Acoustic echo cancellation using deep cerebellar model articulation controller. , 2017, , .		0
212	FIS-based Domestic Milling Machine PHM System Considering Multi-speed Frequency Variation. , 2018, , .		0
213	IOS-based Ear Scale application for Clinical Audiology and Otology Usage. , 2018, , .		0
214	An Industrial IoT Analysis System Based on Machining Data of Metal Materials. , 2018, , .		0
215	Congruent Visual Stimulation Facilitates Auditory Frequency Change Detection: An ERP Study. , 2018, 2018, 2446-2449.		0
216	A Pruned-CELP Speech Codec Using Denoising Autoencoder with Spectral Compensation for Quality and Intelligibility Enhancement. , 2019, , .		0

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217	Compressed Multimodal Hierarchical Extreme Learning Machine for Speech Enhancement. , 2019, , .		0
218	Comparative Study of Masking and Mapping Based on Hierarchical Extreme Learning Machine for Speech Enhancement. , 2019, , .		0
219	Detection of Glottic Neoplasm Based on Voice Signals Using Deep Neural Networks. , 2022, 6, 1-4.		0
220	EMGSE: Acoustic/EMG Fusion for Multimodal Speech Enhancement. , 2022, , .		0