

Yu Tsao

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.

170
papers

2,236
citations

25
h-index

41
g-index

222
ext. papers

3,269
ext. citations

3.3
avg, IF

5.36
L-index

#	Paper	IF	Citations
170	Predicting the Travel Distance of Patients to Access Healthcare Using Deep Neural Networks.. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2022 , 10, 4900411	3	0
169	CITISEN: A Deep Learning-Based Speech Signal-Processing Mobile Application. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
168	Improved Lite Audio-Visual Speech Enhancement. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2022 , 30, 1345-1359	3.6	0
167	Continuous Speech for Improved Learning Pathological Voice Disorders.. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2022 , 3, 25-33	5.9	1
166	SVSNet: An End-to-End Speaker Voice Similarity Assessment Model. <i>IEEE Signal Processing Letters</i> , 2022 , 29, 767-771	3.2	1
165	Detection of Glottic Neoplasm Based on Voice Signals Using Deep Neural Networks 2022 , 6, 1-4		
164	Neural correlates of individual differences in predicting ambiguous sounds comprehension level.. <i>NeuroImage</i> , 2022 , 119012	7.9	
163	SEOFP-NET: Compression and Acceleration of Deep Neural Networks for Speech Enhancement Using Sign-Exponent-Only Floating-Points. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021 , 1-1	3.6	0
162	Coupling a Generative Model With a Discriminative Learning Framework for Speaker Verification. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021 , 29, 3631-3641	3.6	
161	. <i>IEEE Transactions on Multimedia</i> , 2021 , 23, 365-377	6.6	15
160	Improving the Intelligibility of Speech for Simulated Electric and Acoustic Stimulation Using Fully Convolutional Neural Networks. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 184-195	4.8	6
159	Bone-Conducted Speech Enhancement Using Hierarchical Extreme Learning Machine. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 153-162	0.2	1
158	Domain-Adaptive Fall Detection Using Deep Adversarial Training. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 1243-1251	4.8	0
157	Sensing ecosystem dynamics via audio source separation: A case study of marine soundscapes off northeastern Taiwan. <i>PLoS Computational Biology</i> , 2021 , 17, e1008698	5	5
156	Ensemble and Multimodal Learning for Pathological Voice Classification 2021 , 5, 1-4		2
155	Self-Supervised Denoising Autoencoder with Linear Regression Decoder for Speech Enhancement 2020 ,		4
154	Overall survival prediction of non-small cell lung cancer by integrating microarray and clinical data with deep learning. <i>Scientific Reports</i> , 2020 , 10, 4679	4.9	26

153	Forecasting Air Quality in Taiwan by Using Machine Learning. <i>Scientific Reports</i> , 2020 , 10, 4153	4.9	21
152	Source separation in ecoacoustics: a roadmap towards versatile soundscape information retrieval. <i>Remote Sensing in Ecology and Conservation</i> , 2020 , 6, 236-247	5.3	19
151	Multichannel Speech Enhancement by Raw Waveform-Mapping Using Fully Convolutional Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020 , 28, 1888-1900	3.6	9
150	Subspace-Based Representation and Learning for Phonotactic Spoken Language Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020 , 28, 3065-3079	3.6	1
149	ASVspoof 2019: A large-scale public database of synthesized, converted and replayed speech. <i>Computer Speech and Language</i> , 2020 , 64, 101114	2.8	32
148	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	3.2	15
147	Ensemble Hierarchical Extreme Learning Machine for Speech Dereverberation. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2020 , 12, 744-758	3	5
146	Time-Domain Multi-Modal Bone/Air Conducted Speech Enhancement. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1035-1039	3.2	7
145	Atypical Frequency Sweep Processing in Chinese Children With Reading Difficulties: Evidence From Magnetoencephalography. <i>Frontiers in Psychology</i> , 2020 , 11, 1649	3.4	0
144	Blind Monaural Source Separation on Heart and Lung Sounds Based on Periodic-Coded Deep Autoencoder. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 3203-3214	7.2	2
143	. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020 , 28, 2756-2769	3.6	4
142	A Study of Joint Effect on Denoising Techniques and Visual Cues to Improve Speech Intelligibility in Cochlear Implant Simulation. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2020 , 1-1	3	3
141	The IPIN 2019 Indoor Localisation Competition Description and Results. <i>IEEE Access</i> , 2020 , 8, 206674-206718	3.8	15
140	Automatic recognition of murmurs of ventricular septal defect using convolutional recurrent neural networks with temporal attentive pooling. <i>Scientific Reports</i> , 2020 , 10, 21797	4.9	5
139	Multimodal Deep Learning Framework for Image Popularity Prediction on Social Media. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2020 , 1-1	3	5
138	. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 2149-2153	3.2	13
137	Unsupervised Representation Disentanglement Using Cross Domain Features and Adversarial Learning in Variational Autoencoder Based Voice Conversion. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2020 , 4, 468-479	4.1	7
136	. <i>IEEE Access</i> , 2019 , 7, 43286-43297	3.5	3

135	Auditory identification of frequency-modulated sweeps and reading difficulties in Chinese. <i>Research in Developmental Disabilities</i> , 2019 , 86, 53-61	2.7	5
134	Noise Reduction in ECG Signals Using Fully Convolutional Denoising Autoencoders. <i>IEEE Access</i> , 2019 , 7, 60806-60813	3.5	81
133	Computation-Performance Optimization of Convolutional Neural Networks With Redundant Filter Removal. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 1908-1921	3.9	5
132	New Templated Ostwald Ripening Process of Mesosstructured FeOOH for Third-Harmonic Generation Bioimaging. <i>Small</i> , 2019 , 15, e1805086	11	7
131	Garment Detectives: Discovering Clothes and Its Genre in Consumer Photos 2019 ,		8
130	Combining acoustic signals and medical records to improve pathological voice classification. <i>APSIPA Transactions on Signal and Information Processing</i> , 2019 , 8,	4.4	5
129	Reinforcement Learning Based Speech Enhancement for Robust Speech Recognition 2019 ,		5
128	Increasing Compactness of Deep Learning Based Speech Enhancement Models With Parameter Pruning and Quantization Techniques. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 1887-1891	3.2	4
127	Evaluating Indoor Positioning Systems in a Shopping Mall: The Lessons Learned From the IPIN 2018 Competition. <i>IEEE Access</i> , 2019 , 7, 148594-148628	3.5	35
126	A Mobile Phone-Based Approach for Hearing Screening of School-Age Children: Cross-Sectional Validation Study. <i>JMIR MHealth and UHealth</i> , 2019 , 7, e12033	5.5	10
125	Subjective Feedback-based Neural Network Pruning for Speech Enhancement 2019 ,		2
124	Investigation of Neural Network Approaches for Unified Spectral and Prosodic Feature Enhancement 2019 ,		1
123	Refined WaveNet Vocoder for Variational Autoencoder Based Voice Conversion 2019 ,		6
122	Robust S1 and S2 heart sound recognition based on spectral restoration and multi-style training. <i>Biomedical Signal Processing and Control</i> , 2019 , 49, 173-180	4.9	5
121	Detection of Pathological Voice Using Cepstrum Vectors: A Deep Learning Approach. <i>Journal of Voice</i> , 2019 , 33, 634-641	1.9	62
120	Toward Automating Oral Presentation Scoring During Principal Certification Program Using Audio-Video Low-Level Behavior Profiles. <i>IEEE Transactions on Affective Computing</i> , 2019 , 10, 552-567	5.7	1
119	. <i>IEEE Systems Journal</i> , 2018 , 12, 20-29	4.3	13
118	Suppression by Selecting Wavelets for Feature Compression in Distributed Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018 , 26, 564-579	3.6	11

117	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
116	Adaptive Noise Cancellation Using Deep Cerebellar Model Articulation Controller. <i>IEEE Access</i> , 2018 , 6, 37395-37402	3.5	12
115	End-to-End Waveform Utterance Enhancement for Direct Evaluation Metrics Optimization by Fully Convolutional Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018 , 26, 1570-1584	3.6	105
114	Comparison of passive acoustic soniferous fish monitoring with supervised and unsupervised approaches. <i>Journal of the Acoustical Society of America</i> , 2018 , 143, EL278	2.2	21
113	Audio-Visual Speech Enhancement Using Multimodal Deep Convolutional Neural Networks. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2018 , 2, 117-128	4.1	79
112	Bone-conducted speech enhancement using deep denoising autoencoder. <i>Speech Communication</i> , 2018 , 104, 106-112	2.8	16
111	Off-Line Evaluation of Mobile-Centric Indoor Positioning Systems: The Experiences from the 2017 IPIN Competition. <i>Sensors</i> , 2018 , 18,	3.8	37
110	Coral Reef Soundscape to Measure the Species Distribution and Biodiversity 2018 ,		1
109	Listening to the Deep: Exploring Marine Soundscape Variability by Information Retrieval Techniques 2018 ,		5
108	Voice Conversion Based on Cross-Domain Features Using Variational Auto Encoders 2018 ,		7
107	Speech Enhancement Based on Reducing the Detail Portion of Speech Spectrograms in Modulation Domain via DiscreteWavelet Transform 2018 ,		3
106	A Study on Speech Enhancement Using Exponent-Only Floating Point Quantized Neural Network (EOFP-QNN) 2018 ,		4
105	2018 ,		1
104	Deep Denoising Autoencoder Based Post Filtering for Speech Enhancement 2018 ,		1
103	Improving the performance of hearing aids in noisy environments based on deep learning technology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 404-408	0.9	1
102	Architecture Design of Convolutional Neural Networks for Face Detection on an FPGA Platform 2018 ,		2
101	Congruent Visual Stimulation Facilitates Auditory Frequency Change Detection: An ERP Study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2446-2449	0.9	
100	Enhancement and Analysis of Conversational Speech: JSALT 2017 2018 ,		3

99	2018,			4
98	A Novel LSTM-Based Speech Preprocessor for Speaker Diarization in Realistic Mismatch Conditions 2018,			10
97	Demographic and Symptomatic Features of Voice Disorders and Their Potential Application in Classification Using Machine Learning Algorithms. <i>Folia Phoniatrica Et Logopaedica</i> , 2018 , 70, 174-182	1.5		11
96	S1 and S2 Heart Sound Recognition Using Deep Neural Networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 372-380	5		90
95	Multi-style learning with denoising autoencoders for acoustic modeling in the internet of things (IoT). <i>Computer Speech and Language</i> , 2017 , 46, 481-495	2.8		10
94	Regularization of neural network model with distance metric learning for i-vector based spoken language identification. <i>Computer Speech and Language</i> , 2017 , 44, 48-60	2.8		6
93	. <i>IEEE Access</i> , 2017 , 5, 10339-10351	3.5		17
92	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	5		23
91	Personalizing Recurrent-Neural-Network-Based Language Model by Social Network. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017 , 25, 519-530	3.6		12
90	Raw waveform-based speech enhancement by fully convolutional networks 2017,			77
89	Track-Clustering Error Evaluation for Track-Based Multi-camera Tracking System Employing Human Re-identification 2017,			4
88	Effects of noise suppression and envelope dynamic range compression on the intelligibility of vocoded sentences for a tonal language. <i>Journal of the Acoustical Society of America</i> , 2017 , 142, 1157	2.2		5
87	Learning Transportation Modes From Smartphone Sensors Based on Deep Neural Network. <i>IEEE Sensors Journal</i> , 2017 , 17, 6111-6118	4		64
86	Experimental Study on Extreme Learning Machine Applications for Speech Enhancement. <i>IEEE Access</i> , 2017 , 5, 25542-25554	3.5		27
85	Discriminative autoencoders for speaker verification 2017,			3
84	Improving biodiversity assessment via unsupervised separation of biological sounds from long-duration recordings. <i>Scientific Reports</i> , 2017 , 7, 4547	4.9		32
83	A Deep Denoising Autoencoder Approach to Improving the Intelligibility of Vocoded Speech in Cochlear Implant Simulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1568-1578	5		48
82	Object-based on-line video summarization for internet of video things 2017,			2

81	Computing biodiversity change via a soundscape monitoring network 2017 ,		7
80	2017 ,		47
79	A deep learning based noise reduction approach to improve speech intelligibility for cochlear implant recipients in the presence of competing speech noise 2017 ,		4
78	Adaptive Dynamic Range Compression for Improving Envelope-Based Speech Perception: Implications for Cochlear Implants 2017 , 191-214		1
77	Dictionary update for NMF-based voice conversion using an encoder-decoder network 2016 ,		2
76	Modeling speech intelligibility with recovered envelope from temporal fine structure stimulus. <i>Speech Communication</i> , 2016 , 81, 120-128	2.8	1
75	Generalized maximum a posteriori spectral amplitude estimation for speech enhancement. <i>Speech Communication</i> , 2016 , 76, 112-126	2.8	25
74	Image Retrieval Using Color-Aware Tag on Progressive Image Search and Recommendation System. <i>Lecture Notes in Computer Science</i> , 2016 , 162-173	0.9	
73	Adaptive subspace-constrained diagonal loading 2016 ,		1
72	Maximum Entropy Learning with Deep Belief Networks. <i>Entropy</i> , 2016 , 18, 251	2.8	5
71	Transportation Modes Classification Using Sensors on Smartphones. <i>Sensors</i> , 2016 , 16,	3.8	35
70	Wavelet Speech Enhancement Based on Nonnegative Matrix Factorization. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 1101-1105	3.2	17
69	A pseudo-task design in multi-task learning deep neural network for speaker recognition 2016 ,		2
68	Voice conversion from non-parallel corpora using variational auto-encoder 2016 ,		64
67	Assessing the perceptual contributions of level-dependent segments to sentence intelligibility. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 3745	2.2	8
66	A linear regression model with dynamic pulse transit time features for noninvasive blood pressure prediction 2016 ,		6
65	Audio-visual speech enhancement using deep neural networks 2016 ,		10
64	Improving the Performance of Noise Reduction in Hearing Aids Based on the Genetic Algorithm. <i>IFMBE Proceedings</i> , 2016 , 209-214	0.2	

63	Auditory Perception, Suprasegmental Speech Processing, and Vocabulary Development in Chinese Preschoolers. <i>Perceptual and Motor Skills</i> , 2016 , 123, 365-82	2.2	8
62	Channel State Reconstruction Using Multilevel Discrete Wavelet Transform for Improved Fingerprinting-Based Indoor Localization. <i>IEEE Sensors Journal</i> , 2016 , 16, 7784-7791	4	26
61	Acoustic Echo Cancellation Using a Vector-Space-Based Adaptive Filtering Algorithm. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 351-355	3.2	7
60	A probabilistic interpretation for artificial neural network-based voice conversion 2015 ,		4
59	Temporal information in tone recognition 2015 ,		1
58	Rapid Converging M-Max Partial Update Least Mean Square Algorithms with New Variable Step-Size Methods. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2015 , E98.A, 2650-2657	0.4	1
57	Improving denoising auto-encoder based speech enhancement with the speech parameter generation algorithm 2015 ,		5
56	Robust Voice Activity Detection Algorithm Based on Feature of Frequency Modulation of Harmonics and Its DSP Implementation. <i>IEICE Transactions on Information and Systems</i> , 2015 , E98.D, 1808-1817 ¹⁴	0.6	14
55	A discriminative post-filter for speech enhancement in hearing aids 2015 ,		2
54	A deep neural network based approach to mandarin consonant/vowel separation 2015 ,		2
53	A new frequency lowering technique for Mandarin-speaking hearing aid users 2015 ,		1
52	Compensating for Orientation Mismatch in Robust Wi-Fi Localization Using Histogram Equalization. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 5210-5220	6.8	14
51	Ensemble environment modeling using affine transform group. <i>Speech Communication</i> , 2015 , 68, 55-68	2.8	1
50	Effects of Adaptation Rate and Noise Suppression on the Intelligibility of Compressed-Envelope Based Speech. <i>PLoS ONE</i> , 2015 , 10, e0133519	3.7	10
49	. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014 , 22, 403-416	3.6	4
48	Incorporating local information of the acoustic environments to MAP-based feature compensation and acoustic model adaptation. <i>Computer Speech and Language</i> , 2014 , 28, 709-726	2.8	4
47	Variable Selection Linear Regression for Robust Speech Recognition. <i>IEICE Transactions on Information and Systems</i> , 2014 , E97.D, 1477-1487	0.6	1
46	Acoustic feature conversion using a polynomial based feature transferring algorithm 2014 ,		1

45	A Transfer Probabilistic Collective Factorization Model to Handle Sparse Data in Collaborative Filtering 2014,	12
44	2014,	1
43	Robust anchorperson detection based on audio streams using a hybrid I-vector and DNN system 2014,	2
42	2014,	14
41	Sparse representation based on a bag of spectral exemplars for acoustic event detection 2014,	16
40	2013,	7
39	Evaluation of generalized maximum a posteriori spectral amplitude (GMAPA) speech enhancement algorithm in hearing aids 2013,	6
38	2013,	6
37	Incorporating global variance in the training phase of GMM-based voice conversion 2013,	8
36	Exploring mutual information for GMM-based spectral conversion 2012,	4
35	A study on cepstral sub-band normalization for robust ASR 2012,	4
34	A linear projection approach to environment modeling for robust speech recognition 2012,	2
33	Feature normalization and selection for robust speaker state recognition 2011,	3
32	An acoustic segment model approach to incorporating temporal information into speaker modeling for text-independent speaker recognition 2010,	6
31	Ensemble speaker and speaking environment modeling approach with advanced online estimation process 2009,	5
30	MAP estimation of online mapping parameters in ensemble speaker and speaking environment modeling 2009,	1
29	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009 , 17, 1025-1037	19
28	A programmable analog radial-basis-function based classifier. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008,	1.6 1

27	Two extensions to ensemble speaker and speaking environment modeling for robust automatic speech recognition 2007 ,		3
26	Segmental eigenvoice with delicate eigenspace for improved speaker adaptation. <i>IEEE Transactions on Speech and Audio Processing</i> , 2005 , 13, 399-411		13
25	A recommendation mechanism for contextualized mobile advertising. <i>Expert Systems With Applications</i> , 2003 , 24, 399-414	7.8	90
24	A study on knowledge source integration for candidate rescoring in automatic speech recognition		1
23	Lite Audio-Visual Speech Enhancement		4
22	Incorporating Broad Phonetic Information for Speech Enhancement		2
21	Speech enhancement based on deep denoising autoencoder		113
20	SNR-Aware Convolutional Neural Network Modeling for Speech Enhancement		63
19	Locally Linear Embedding for Exemplar-Based Spectral Conversion		12
18	Pair-Wise Distance Metric Learning of Neural Network Model for Spoken Language Identification		2
17	Voice Conversion from Unaligned Corpora Using Variational Autoencoding Wasserstein Generative Adversarial Networks		71
16	Wavelet Speech Enhancement Based on Robust Principal Component Analysis		2
15	Temporal Attentive Pooling for Acoustic Event Detection		4
14	Quality-Net: An End-to-End Non-intrusive Speech Quality Assessment Model Based on BLSTM		25
13	Investigation of F0 Conditioning and Fully Convolutional Networks in Variational Autoencoder Based Voice Conversion		3
12	MOSNet: Deep Learning-Based Objective Assessment for Voice Conversion		14
11	Speaker-Aware Deep Denoising Autoencoder with Embedded Speaker Identity for Speech Enhancement		5
10	A study on separation between acoustic models and its applications		3

9	Exemplar-Based Spectral Detail Compensation for Voice Conversion	2
8	Noise Adaptive Speech Enhancement Using Domain Adversarial Training	4
7	Generative Adversarial Networks for Unpaired Voice Transformation on Impaired Speech	5
6	Ensemble modeling of denoising autoencoder for speech spectrum restoration	4
5	Improving the ensemble speaker and speaking environment modeling approach by enhancing the precision of the online estimation process	2
4	A study of mutual information for GMM-based spectral conversion	4
3	An investigation of spectral restoration algorithms for deep neural networks based noise robust speech recognition	4
2	Ensemble of machine learning and acoustic segment model techniques for speech emotion and autism spectrum disorders recognition	7
1	Recurrent neural network based language model personalization by social network crowdsourcing	26