

# Biing-Hwang Juang

## List of Publications by Year in descending order

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36  
papers

2,001  
citations

1039406

9  
h-index

887659

17  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power of Deep Learning for Channel Estimation and Signal Detection in OFDM Systems. IEEE Wireless Communications Letters, 2018, 7, 114-117.	3.2	1,230
2	Deep Learning Enabled Semantic Communication Systems. IEEE Transactions on Signal Processing, 2021, 69, 2663-2675.	3.2	296
3	Deep Learning-Based End-to-End Wireless Communication Systems With Conditional GANs as Unknown Channels. IEEE Transactions on Wireless Communications, 2020, 19, 3133-3143.	6.1	203
4	Air-Writing Recognitionâ€”Part II: Detection and Recognition of Writing Activity in Continuous Stream of Motion Data. IEEE Transactions on Human-Machine Systems, 2016, 46, 436-444.	2.5	60
5	Deep Learning Based End-to-End Wireless Communication Systems Without Pilots. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 702-714.	4.9	45
6	Speech Dereverberation Based on Maximum-Likelihood Estimation With Time-Varying Gaussian Source Model. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1512-1527.	3.8	34
7	Speech Analysis in a Model of the Central Auditory System. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1802-1817.	3.8	30
8	A new 6D motion gesture database and the benchmark results of feature-based statistical recognition. , 2012, , .		12
9	Quantification and Transmission of Information and Intelligenceâ€”History and Outlook [DSP History]. IEEE Signal Processing Magazine, 2011, 28, 90-101.	4.6	10
10	Nonlinear Compensation Using the Gaussâ€”Newton Method for Noise-Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2191-2206.	3.8	10
11	Automatic Speech Recognition Based on Non-Uniform Error Criteria. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 780-793.	3.8	8
12	Deep neural networks â€” a developmental perspective. APSIPA Transactions on Signal and Information Processing, 2016, 5, .	2.6	7
13	Introduction to the Special Issue on Processing Reverberant Speech: Methodologies and Applications. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1673-1675.	3.8	6
14	Stranded Gaussian mixture hidden Markov models for robust speech recognition. , 2012, , .		6
15	Non-Uniform error criteria for automatic pattern and speech recognition. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	5
16	Empirical System Learning for Statistical Pattern Recognition With Non-Uniform Error Criteria. IEEE Transactions on Signal Processing, 2010, 58, 4621-4633.	3.2	4
17	Discriminative training using non-uniform criteria for keyword spotting on spontaneous speech. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 300-312.	4.0	4
18	Toward robust moment invariants for image registration. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	3

#	ARTICLE	IF	CITATIONS
19	Incremental learning of mixture models for simultaneous estimation of class distribution and inter-class decision boundaries. , 2008, , .		3
20	Fast discriminative training for sequential observations with application to speaker identification. , 0, , .		2
21	Automatic speech recognition based on weighted minimum classification error (W-MCE) training method. , 2007, , .		2
22	Characteristics of spatio-temporal signals acquired by optical motion tracking. , 2010, , .		2
23	Audio signal classification with temporal envelopes. , 2011, , .		2
24	Trajectory triangulation: 3D motion reconstruction with $\ell_1$ optimization. , 2011, , .		2
25	6D motion gesture recognition using spatio-temporal features. , 2012, , .		2
26	Perceptually motivated temporal modeling of footsteps in a cross-environmental detection task. , 2013, , .		2
27	An Extension of MUSIC Exploiting Higher-Order Moments via Nonlinear Mapping. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1152-1162.	0.2	2
28	Separation of Snr Via Dimension Expansion in a Model of the Central Auditory System. , 0, , .		1
29	A study on rescoring using HMM-based detectors for continuous speech recognition. , 2007, , .		1
30	An Investigation of Non-Uniform Error Cost Function Design in Automatic Speech Recognition. , 2008, , .		1
31	Utilizing non-uniform cost learning for active control of inter-class confusion. , 2008, , .		1
32	Improving Kernel Density Classifier Using Corrective Bandwidth Learning with Smooth Error Loss Function. , 2008, , .		1
33	Feature extraction by incremental parsing for music indexing. , 2010, , .		1
34	Exploiting sparsity in stranded hidden Markov models for automatic speech recognition. , 2012, , .		1
35	A general discriminative training algorithm for speech recognition using weighted finite-state transducers. , 2012, , .		1
36	Modeling heterogeneous data sources for speech recognition using synchronous hidden Markov models. , 2013, , .		1