

# Hynek Hermansky

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,165  
citations

516215

16  
h-index

433756

31  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial speech detection for binaural hearing aids using deep phoneme classifiers. Acta Acustica, 2022, 6, 25.	0.4	0
2	Two-Stage Augmentation and Adaptive CTC Fusion for Improved Robustness of Multi-Stream end-to-end ASR. , 2021, , .		1
3	Multi-Stream End-to-End Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 646-655.	4.0	10
4	M-vectors: Sub-band Based Energy Modulation Features for Multi-stream Automatic Speech Recognition. , 2019, , .		7
5	Deriving Spectro-temporal Properties of Hearing from Speech Data. , 2019, , .		3
6	Stream Attention-based Multi-array End-to-end Speech Recognition. , 2019, , .		10
7	General properties of auditory spectro-temporal receptive fields. Journal of the Acoustical Society of America, 2019, 146, EL459-EL463.	0.5	0
8	Coding and decoding of messages in human speech communication: Implications for machine recognition of speech. Speech Communication, 2019, 106, 112-117.	1.6	5
9	DNN-based performance measures for predicting error rates in automatic speech recognition and optimizing hearing aid parameters. Speech Communication, 2019, 106, 44-56.	1.6	15
10	A new efficient measure for accuracy prediction and its application to multistream-based unsupervised adaptation. , 2016, , .		3
11	Performance monitoring for automatic speech recognition in noisy multi-channel environments. , 2016, , .		8
12	Factor Analysis of Auto-Associative Neural Networks With Application in Speaker Verification. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 522-528.	7.2	11
13	Multistream Recognition of Speech: Dealing With Unknown Unknowns. Proceedings of the IEEE, 2013, 101, 1076-1088.	16.4	31
14	Temporal resolution analysis in frequency domain linear prediction. Journal of the Acoustical Society of America, 2012, 132, EL436-EL442.	0.5	9
15	Multilingual MLP features for low-resource LVCSR systems. , 2012, , .		68
16	Beyond Novelty Detection: Incongruent Events, When General and Specific Classifiers Disagree. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1886-1901.	9.7	17
17	Regularized Auto-Associative Neural Networks for Speaker Verification. IEEE Signal Processing Letters, 2012, 19, 841-844.	2.1	10
18	Phase AutoCorrelation (PAC) features for noise robust speech recognition. Speech Communication, 2012, 54, 867-880.	1.6	8

#	ARTICLE	IF	CITATIONS
19	Sparse Multilayer Perceptron for Phoneme Recognition. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 23-29.	3.8	46
20	Toward optimizing stream fusion in multistream recognition of speech. Journal of the Acoustical Society of America, 2011, 130, EL14-EL18.	0.5	10
21	Analysis of MLP-Based Hierarchical Phoneme Posterior Probability Estimator. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 225-241.	3.8	60
22	Speech recognition from spectral dynamics. Sadhana - Academy Proceedings in Engineering Sciences, 2011, 36, 729-744.	0.8	18
23	Multi-layer perceptron based speech activity detection for speaker verification. , 2011, , .		5
24	Multilayer perceptron with sparse hidden outputs for phoneme recognition. , 2011, , .		18
25	Wide-Band Audio Coding Based on Frequency-Domain Linear Prediction. Eurasip Journal on Audio, Speech, and Music Processing, 2010, 2010, 1-14.	1.3	2
26	Autoregressive Models of Amplitude Modulations in Audio Compression. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1624-1631.	3.8	8
27	Temporal envelope compensation for robust phoneme recognition using modulation spectrum. Journal of the Acoustical Society of America, 2010, 128, 3769-3780.	0.5	28
28	Data-Driven and Feedback Based Spectro-Temporal Features for Speech Recognition. IEEE Signal Processing Letters, 2010, 17, 957-960.	2.1	14
29	Modulation frequency features for phoneme recognition in noisy speech. Journal of the Acoustical Society of America, 2009, 125, EL8-EL12.	0.5	24
30	Phoneme recognition using spectral envelope and modulation frequency features. , 2009, , .		25
31	Temporal envelope subtraction for robust speech recognition using modulation spectrum. , 2009, , .		6
32	Applications of signal analysis using autoregressive models for amplitude modulation. , 2009, , .		3
33	Recognition of Reverberant Speech Using Frequency Domain Linear Prediction. IEEE Signal Processing Letters, 2008, 15, 681-684.	2.1	58
34	Data-driven spectral basis functions for automatic speech recognition. Speech Communication, 2003, 40, 449-466.	1.6	11
35	Phoneme Recognition Using Temporal Patterns. Lecture Notes in Computer Science, 2003, , 198-205.	1.0	1
36	Human Speech Perception: Some Lessons from Automatic Speech Recognition. Lecture Notes in Computer Science, 2001, , 187-196.	1.0	6

#	ARTICLE	IF	CITATIONS
37	Data-Driven Temporal Filters and Alternatives to GMM in Speaker Verification. , 2000, 10, 55-74.		14
38	Relevance of timeâ€“frequency features for phonetic and speaker-channel classification. Speech Communication, 2000, 31, 35-50.	1.6	74
39	Syllable intelligibility for temporally filtered LPC cepstral trajectories. Journal of the Acoustical Society of America, 1999, 105, 2783-2791.	0.5	59
40	Speech enhancement using linear prediction residual. Speech Communication, 1999, 28, 25-42.	1.6	145
41	On the relative importance of various components of the modulation spectrum for automatic speech recognition. Speech Communication, 1999, 28, 43-55.	1.6	99
42	Should recognizers have ears?. Speech Communication, 1998, 25, 3-27.	1.6	124
43	Towards increasing speech recognition error rates. Speech Communication, 1996, 18, 205-231.	1.6	91
44	Perceptual linear predictive (PLP) analysis of speech. Journal of the Acoustical Society of America, 1990, 87, 1738-1752.	0.5	1,943
45	Low-dimensional representation of vowels based on all-pole modeling in the psychophysical domain. Speech Communication, 1985, 4, 181-187.	1.6	35
46	Assessing Speech Quality in Speech-Aware Hearing Aids Based on Phoneme Posteriorgrams. , 0, , .		6
47	Stream Attention for Distributed Multi-Microphone Speech Recognition. , 0, , .		9
48	Exploring Methods for the Automatic Detection of Errors in Manual Transcription. , 0, , .		0
49	Performance Monitoring for End-to-End Speech Recognition. , 0, , .		2
50	Modulation Vectors as Robust Feature Representation for ASR in Domain Mismatched Conditions. , 0, , .		0
51	Hilbert Envelope Based Features for Far-Field Speech Recognition. Lecture Notes in Computer Science, 0, , 119-124.	1.0	3