Abeer Alwan

List of Publications by Year
in descending order

58 papers	1,154 citations	623574 14 h-index	454834 30 g-index
60 all docs	60 docs citations	60 times ranked	827 citing authors

#	ARTICLE	IF	CITATIONS
1	Age, sex, and vowel dependencies of acoustic measures related to the voice source. Journal of the Acoustical Society of America, 2007, 121, 2283-2295.	0.5	144
2	Acoustic modeling of American English /r/. Journal of the Acoustical Society of America, 2000, 108, 343-356.	0.5	108
3	Toward articulatory-acoustic models for liquid approximants based on MRI and EPG data. Part II. The rhotics. Journal of the Acoustical Society of America, 1997, 101, 1078-1089.	0.5	100
4	Glottal source processing: From analysis to applications. Computer Speech and Language, 2014, 28, 1117-1138.	2.9	83
5	On the Relationship between Face Movements, Tongue Movements, and Speech Acoustics. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.0	78
6	Variability in the relationships among voice quality, harmonic amplitudes, open quotient, and glottal area waveform shape in sustained phonation. Journal of the Acoustical Society of America, 2012, 132, 2625-2632.	0.5	70
7	Optical Phonetics and Visual Perception of Lexical and Phrasal Stress in English. Language and Speech, 2009, 52, 135-175.	0.6	54
8	SAFE: A Statistical Approach to F0 Estimation Under Clean and Noisy Conditions. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 933-944.	3.8	45
9	Dynamic time warping and sparse representation classification for birdsong phrase classification using limited training data. Journal of the Acoustical Society of America, 2015, 137, 1069-1080.	0.5	45
10	A System for Technology Based Assessment of Language and Literacy in Young Children: the Role of Multiple Information Sources. , 2007, , .		26
11	Similarity structure in visual speech perception and optical phonetic signals. Perception & Psychophysics, 2007, 69, 1070-1083.	2.3	26
12	Reducing F0 Frame Error of F0 tracking algorithms under noisy conditions with an unvoiced/voiced classification frontend. , 2009, , .		26
13	Voice activity detection using harmonic frequency components in likelihood ratio test. , 2010, , .		26
14	A Generative Student Model for Scoring Word Reading Skills. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 348-360.	3.8	18
15	Perception of place of articulation for plosives and fricatives in noise. Speech Communication, 2011, 53, 195-209.	1.6	18
16	A Low-Complexity Parabolic Lip Contour Model With Speaker Normalization for High-Level Feature Extraction in Noise-Robust Audiovisual Speech Recognition. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 1273-1280.	3.4	17
17	Estimating Speaker Height and Subglottal Resonances Using MFCCs and GMMs. IEEE Signal Processing Letters, 2014, 21, 159-162.	2.1	16
18	A robust automatic birdsong phrase classification: A template-based approach. Journal of the Acoustical Society of America, 2016, 140, 3691-3701.	0.5	16

#	ARTICLE	IF	CITATIONS
19	HMM-Based Reconstruction of Unreliable Spectrographic Data for Noise Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1612-1623.	3.8	15
20	Perceptual evaluation of voice source models. Journal of the Acoustical Society of America, 2015, 138, 1-10.	0.5	15
21	Utilizing Compressibility in Reconstructing Spectrographic Data, With Applications to Noise Robust ASR. IEEE Signal Processing Letters, 2009, 16, 398-401.	2.1	14
22	A novel approach to soft-mask estimation and Log-Spectral enhancement for robust speech recognition. , 2012, , .		11
23	The glottaltopogram: A method of analyzing high-speed images of the vocal folds. Computer Speech and Language, 2014, 28, 1156-1169.	2.9	11
24	Noise-robust F0 estimation using SNR-weighted summary correlograms from multi-band comb filters. , 2011, , .		10
25	Log-spectral amplitude estimation with Generalized Gamma distributions for speech enhancement. , 2011, , .		10
26	A robust automatic bird phrase classifier using dynamic time-warping with prominent region identification. , 2013, , .		10
27	Towards understanding speaker discrimination abilities in humans and machines for text-independent short utterances of different speech styles. Journal of the Acoustical Society of America, 2018, 144, 375-386.	0.5	10
28	Fraug: A Frame Rate Based Data Augmentation Method for Depression Detection from Speech Signals. , 2022, 2022, 6267-6271.		10
29	A new voice source model based on high-speed imaging and its application to voice source estimation. , 2010, , .		9
30	A Unified Framework for Designing Optimal STSA Estimators Assuming Maximum Likelihood Phase Equivalence of Speech and Noise. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2579-2590.	3.8	9
31	Robust speaker identification via fusion of subglottal resonances and cepstral features. Journal of the Acoustical Society of America, 2017, 141, EL420-EL426.	0.5	9
32	Efficient adaptation text design based on the Kullback-Leibler measure. , 2002, , .		8
33	Automatic height estimation using the second subglottal resonance. , 2012, , .		8
34	Bird phrase segmentation by entropy-driven change point detection. , 2013, , .		8
35	Speaker Adaptation With Limited Data Using Regression-Tree-Based Spectral Peak Alignment. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2454-2464.	3.8	6
36	On the acoustic correlates of high and low nuclear pitch accents in American English. Speech Communication, 2010, 52, 106-122.	1.6	5

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37	Non-linear frequency warping for VTLN using subglottal resonances and the third formant frequency. , 2013, , .		5
38	Introduction to the Issue on Data Science: Machine Learning for Audio Signal Processing. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 203-205.	7.3	5
39	Rate Allocation for Noncollaborative Multiuser Speech Communication Systems Based on Bargaining Theory. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1156-1166.	3.8	4
40	Automatic estimation of the second subglottal resonance from natural speech. , 2011, , .		4
41	A sparse representation-based classifier for in-set bird phrase verification and classification with limited training data. , 2013, , .		4
42	Similarity structure in perceptual and physical measures for visual Consonants across talkers. , 2002, , .		3
43	An efficient approximation of the forward-backward algorithm to deal with packet loss, with applications to remote speech recognition. , 2008, , .		3
44	Improved Speech Presence Probabilities Using HMM-Based Inference, With Applications to Speech Enhancement and ASR. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 808-815.	7.3	3
45	FBEM: A filter bank EM algorithm for the joint optimization of features and acoustic model parameters in bird call classification. , 2012, , .		3
46	Change point detection methodology used for segmenting bird songs. , 2013, , .		3
47	Subglottal resonances of American English speaking children. Journal of the Acoustical Society of America, 2018, 144, 3437-3449.	0.5	3
48	Feature enhancement using sparse reference and estimated soft-mask exemplar-pairs for noisy speech recognition. , 2014, , .		2
49	Analysis by synthesis of FM modulation and aspiration noise components in pathological voices. , 2002, , .		1
50	A Statistical Acoustic Confusability Metric Between Hidden Markov Models. , 2007, , .		1
51	Robust Speaker Adaptation by Weighted Model Averaging Based on the Minimum Description Length Criterion. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 652-660.	3.8	1
52	The glottaltopograph: A method of analyzing high-speed images of the vocal folds. , 2012, , .		1
53	Non-linear dimension reduction of Gabor features for noise-robust ASR. , 2014, , .		1
54	A Hierarchical Classification Framework for Phonemes and Broad Phonetic Groups (BPGs): a Discriminative Template-Based Approach. , 2019, , .		1

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55	Speaker discrimination performance for â€œeasyâ€•versus â€œhardâ€•voices in style-matched and -mismatched speech. Journal of the Acoustical Society of America, 2022, 151, 1393-1403.	0.5	1
56	Can Social Robots Effectively Elicit Curiosity in STEM Topics from K-1 Students During Oral Assessments?. , 2022, , .		1
57	Frequency warping using subglottal resonances: Complementarity with VTLN and robustness to additive noise. , 2014, , .		0
58	Target and Non-target Speaker Discrimination by Humans and Machines. , 2019, , .		0