

Abeer Alwan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12162013/publications.pdf>

Version: 2024-02-01

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 | Speaker discrimination performance for "easy" versus "hard" voices in style-matched and -mismatched speech. Journal of the Acoustical Society of America, 2022, 151, 1393-1403. | 0.5 | 1 |
| 2 | Can Social Robots Effectively Elicit Curiosity in STEM Topics from K-1 Students During Oral Assessments?. , 2022, , . | | 1 |
| 3 | Fraug: A Frame Rate Based Data Augmentation Method for Depression Detection from Speech Signals. , 2022, 2022, 6267-6271. | | 10 |
| 4 | Target and Non-target Speaker Discrimination by Humans and Machines. , 2019, , . | | 0 |
| 5 | 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 |
| 6 | A Hierarchical Classification Framework for Phonemes and Broad Phonetic Groups (BPGs): a Discriminative Template-Based Approach. , 2019, , . | | 1 |
| 7 | Subglottal resonances of American English speaking children. Journal of the Acoustical Society of America, 2018, 144, 3437-3449. | 0.5 | 3 |
| 8 | 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 |
| 9 | 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 |
| 10 | A robust automatic birdsong phrase classification: A template-based approach. Journal of the Acoustical Society of America, 2016, 140, 3691-3701. | 0.5 | 16 |
| 11 | Perceptual evaluation of voice source models. Journal of the Acoustical Society of America, 2015, 138, 1-10. | 0.5 | 15 |
| 12 | 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 |
| 13 | Non-linear dimension reduction of Gabor features for noise-robust ASR. , 2014, , . | | 1 |
| 14 | Frequency warping using subglottal resonances: Complementarity with VTLN and robustness to additive noise. , 2014, , . | | 0 |
| 15 | Feature enhancement using sparse reference and estimated soft-mask exemplar-pairs for noisy speech recognition. , 2014, , . | | 2 |
| 16 | Glottal source processing: From analysis to applications. Computer Speech and Language, 2014, 28, 1117-1138. | 2.9 | 83 |
| 17 | Estimating Speaker Height and Subglottal Resonances Using MFCCs and GMMs. IEEE Signal Processing Letters, 2014, 21, 159-162. | 2.1 | 16 |
| 18 | The glottal topogram: A method of analyzing high-speed images of the vocal folds. Computer Speech and Language, 2014, 28, 1156-1169. | 2.9 | 11 |

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|----|---|-----|-----------|
| 19 | A sparse representation-based classifier for in-set bird phrase verification and classification with limited training data. , 2013, , . | | 4 |
| 20 | A robust automatic bird phrase classifier using dynamic time-warping with prominent region identification. , 2013, , . | | 10 |
| 21 | Bird phrase segmentation by entropy-driven change point detection. , 2013, , . | | 8 |
| 22 | Change point detection methodology used for segmenting bird songs. , 2013, , . | | 3 |
| 23 | Non-linear frequency warping for VTLN using subglottal resonances and the third formant frequency. , 2013, , . | | 5 |
| 24 | 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 |
| 25 | The glottal topograph: A method of analyzing high-speed images of the vocal folds. , 2012, , . | | 1 |
| 26 | FBEM: A filter bank EM algorithm for the joint optimization of features and acoustic model parameters in bird call classification. , 2012, , . | | 3 |
| 27 | Automatic height estimation using the second subglottal resonance. , 2012, , . | | 8 |
| 28 | A novel approach to soft-mask estimation and Log-Spectral enhancement for robust speech recognition. , 2012, , . | | 11 |
| 29 | 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 |
| 30 | A Generative Student Model for Scoring Word Reading Skills. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 348-360. | 3.8 | 18 |
| 31 | 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 |
| 32 | Perception of place of articulation for plosives and fricatives in noise. Speech Communication, 2011, 53, 195-209. | 1.6 | 18 |
| 33 | Noise-robust F0 estimation using SNR-weighted summary correlograms from multi-band comb filters. , 2011, , . | | 10 |
| 34 | Automatic estimation of the second subglottal resonance from natural speech. , 2011, , . | | 4 |
| 35 | Log-spectral amplitude estimation with Generalized Gamma distributions for speech enhancement. , 2011, , . | | 10 |
| 36 | On the acoustic correlates of high and low nuclear pitch accents in American English. Speech Communication, 2010, 52, 106-122. | 1.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | A new voice source model based on high-speed imaging and its application to voice source estimation. , 2010, , . | | 9 |
| 40 | Voice activity detection using harmonic frequency components in likelihood ratio test. , 2010, , . | | 26 |
| 41 | Reducing F0 Frame Error of F0 tracking algorithms under noisy conditions with an unvoiced/voiced classification frontend. , 2009, , . | | 26 |
| 42 | Optical Phonetics and Visual Perception of Lexical and Phrasal Stress in English. Language and Speech, 2009, 52, 135-175. | 0.6 | 54 |
| 43 | Utilizing Compressibility in Reconstructing Spectrographic Data, With Applications to Noise Robust ASR. IEEE Signal Processing Letters, 2009, 16, 398-401. | 2.1 | 14 |
| 44 | 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 |
| 45 | An efficient approximation of the forward-backward algorithm to deal with packet loss, with applications to remote speech recognition. , 2008, , . | | 3 |
| 46 | 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 |
| 47 | A Statistical Acoustic Confusability Metric Between Hidden Markov Models. , 2007, , . | | 1 |
| 48 | A System for Technology Based Assessment of Language and Literacy in Young Children: the Role of Multiple Information Sources. , 2007, , . | | 26 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | Similarity structure in visual speech perception and optical phonetic signals. Perception & Psychophysics, 2007, 69, 1070-1083. | 2.3 | 26 |
| 53 | Efficient adaptation text design based on the Kullback-Leibler measure. , 2002, , . | | 8 |
| 54 | Similarity structure in perceptual and physical measures for visual Consonants across talkers. , 2002, , . | | 3 |

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|----|--|-----|-----------|
| 55 | Analysis by synthesis of FM modulation and aspiration noise components in pathological voices. , 2002, , . | | 1 |
| 56 | On the Relationship between Face Movements, Tongue Movements, and Speech Acoustics. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1. | 1.0 | 78 |
| 57 | Acoustic modeling of American English /r/. Journal of the Acoustical Society of America, 2000, 108, 343-356. | 0.5 | 108 |
| 58 | 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 |