AscensiÃ“n Gallardo-AntolÃn

List of Publications by Year
in descending order

43 papers	493 citations	687363 13 h-index	752698 20 g-index
43 all docs	43 docs citations	43 times ranked	413 citing authors

#	Article	IF	Citations
1	Recognizing voice over IP: a robust front-end for speech recognition on the world wide web. IEEE Transactions on Multimedia, 2001, 3, 209-218.	7.2	54
2	Automatic Detection of Depression in Speech Using Ensemble Convolutional Neural Networks. Entropy, 2020, 22, 688.	2.2	50
3	Robust ASR using Support Vector Machines. Speech Communication, 2007, 49, 253-267.	2.8	30
4	Building a Decision Support System for Inpatient Admission Prediction With the Manchester Triage System and Administrative Check-in Variables. CIN - Computers Informatics Nursing, 2016, 34, 224-230.	0.5	29
5	An attention Long Short-Term Memory based system for automatic classification of speech intelligibility. Engineering Applications of Artificial Intelligence, 2020, 96, 103976.	8.1	26
6	Recognizing GSM digital speech. IEEE Transactions on Speech and Audio Processing, 2005, 13, 1186-1205.	1.5	22
7	Acoustic Event Classification using spectral band selection and Non-Negative Matrix Factorization-based features. Expert Systems With Applications, 2016, 46, 77-86.	7.6	21
8	Band-pass filtering of the time sequences of spectral parameters for robust wireless speech recognition. Speech Communication, 2006, 48, 1379-1398.	2.8	19
9	Feature extraction based on the high-pass filtering of audio signals for Acoustic Event Classification. Computer Speech and Language, 2015, 30, 32-42.	4.3	19
10	Bird sound spectrogram decomposition through Non-Negative Matrix Factorization for the acoustic classification of bird species. PLoS ONE, 2017, 12, e0179403.	2.5	18
11	Automatic placement of outer volume suppression slices in MR spectroscopic imaging of the human brain. Magnetic Resonance in Medicine, 2010, 63, 592-600.	3.0	17
12	Histogram Equalization-Based Features for Speech, Music, and Song Discrimination. IEEE Signal Processing Letters, 2010, 17, 659-662.	3.6	17
13	Data Augmentation for Speaker Identification under Stress Conditions to Combat Gender-Based Violence. Applied Sciences (Switzerland), 2019, 9, 2298.	2.5	16
14	Detecting Deception from Gaze and Speech Using a Multimodal Attention LSTM-Based Framework. Applied Sciences (Switzerland), 2021, 11, 6393.	2.5	15
15	Avoiding distortions due to speech coding and transmission errors in GSM ASR tasks. , 1999, , .		13
16	A comparison of front-ends for bitstream-based ASR over IP. Signal Processing, 2006, 86, 1502-1508.	3.7	13
17	Temporal segmentation and keyframe selection methods for user-generated video search-based annotation. Expert Systems With Applications, 2015, 42, 488-502.	7.6	13
18	Emergency Department Visit Forecasting and Dynamic Nursing Staff Allocation Using Machine Learning Techniques With Readily Available Open-Source Software. CIN - Computers Informatics Nursing, 2015, 33, 368-377.	0.5	11

#	Article	IF	Citations
19	On combining acoustic and modulation spectrograms in an attention LSTM-based system for speech intelligibility level classification. Neurocomputing, 2021, 456, 49-60.	5.9	10
20	Auditory-Inspired Morphological Processing of Speech Spectrograms: Applications in Automatic Speech Recognition and Speech Enhancement. Cognitive Computation, 2013, 5, 426-441.	5.2	9
21	Offline speaker segmentation using genetic algorithms and mutual information. IEEE Transactions on Evolutionary Computation, 2006, 10, 175-186.	10.0	8
22	Enhancement of a text-independent speaker verification system by using feature combination and parallel structure classifiers. Neural Computing and Applications, 2018, 29, 637-651.	5.6	7
23	A Saliency-Based Attention LSTM Model for Cognitive Load Classification from Speech. , 0, , .		7
24	Morphological Processing of Spectrograms for Speech Enhancement. Lecture Notes in Computer Science, 2011, , 224-231.	1.3	6
25	Speech Denoising Using Non-negative Matrix Factorization with Kullback-Leibler Divergence and Sparseness Constraints. Communications in Computer and Information Science, 2012, , 207-216.	0.5	6
26	Initial evaluation of a preselection module for a flexible large vocabulary speech recognition system in telephone environment. , 0, , .		5
27	External Attention LSTM Models for Cognitive Load Classification from Speech. Lecture Notes in Computer Science, 2019, , 139-150.	1.3	5
28	Feature extraction assessment for an acoustic-event classification task using the entropy triangle. , 0, , .		5
29	Echoic log-surprise: A multi-scale scheme for acoustic saliency detection. Expert Systems With Applications, 2018, 114, 255-266.	7.6	4
30	Morphologically Filtered Power-Normalized Cochleograms as Robust, Biologically Inspired Features for ASR. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 2070-2080.	5.8	3
31	An Auditory Saliency Pooling-Based LSTM Model for Speech Intelligibility Classification. Symmetry, 2021, 13, 1728.	2.2	3
32	NMF-Based Spectral Analysis for Acoustic Event Classification Tasks. Lecture Notes in Computer Science, 2013, , 9-16.	1.3	3
33	Speaker Recognition under Stress Conditions. , 0, , .		3
34	NMF-based temporal feature integration for acoustic event classification. , 0, , .		2
35	A simulated annealing approach to speaker segmentation in audio databases. Engineering Applications of Artificial Intelligence, 2008, 21, 499-508.	8.1	1
36	Towards multimodal saliency detection: An enhancement of audio-visual correlation estimation. , 2017, , .		1

#	Article	IF	Citations
37	The Robustness of Echoic Log-Surprise Auditory Saliency Detection. IEEE Access, 2018, 6, 72083-72093.	4.2	1
38	An Application of SVM to Lost Packets Reconstruction in Voice-Enabled Services. Lecture Notes in Computer Science, 2002, , 1174-1179.	1.3	1
39	Design of an embedded speech-centric interface for applications in handheld terminals. IEEE Aerospace and Electronic Systems Magazine, 2013, 28, 24-33.	1.3	0
40	Calculating classifier calibration performance with a custom modification of Weka. , 2015, , .		0
41	Preliminary experiments on the robustness of biologically motivated features for DNN-based ASR. , 2015, , .		0
42	An Analysis of Deep Neural Networks in Broad Phonetic Classes for Noisy Speech Recognition. Lecture Notes in Computer Science, 2016, , 87-96.	1.3	0
43	Prediction of the Degree of Parkinsonâ€™s Condition Using Recordings of Patientsâ€™ Voices. Advances in Intelligent Systems and Computing, 2018, , 120-129.	0.6	0