Juan Rafael Orozco-Arroyave

List of Publications by Year
in descending order

87 papers	1,582 citations	394286 19 h-index	395590 33 g-index
94 all docs	94 docs citations	94 times ranked	1045 citing authors

#	Article	IF	Citations
1	Automatic detection of Parkinson's disease in running speech spoken in three different languages. Journal of the Acoustical Society of America, 2016, 139, 481-500.	0.5	151
2	Multimodal Assessment of Parkinson's Disease: A Deep Learning Approach. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1618-1630.	3.9	126
3	Characterization Methods for the Detection of Multiple Voice Disorders: Neurological, Functional, and Laryngeal Diseases. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1820-1828.	3.9	96
4	How language flows when movements donâ€™t: An automated analysis of spontaneous discourse in Parkinsonâ€™s disease. Brain and Language, 2016, 162, 19-28.	0.8	89
5	NeuroSpeech: An open-source software for Parkinson's speech analysis. , 2018, 77, 207-221.		72
6	Towards an automatic evaluation of the dysarthria level of patients with Parkinson's disease. Journal of Communication Disorders, 2018, 76, 21-36.	0.8	72
7	Analysis of speaker recognition methodologies and the influence of kinetic changes to automatically detect Parkinson's Disease. Applied Soft Computing Journal, 2018, 62, 649-666.	4.1	71
8	Deep Learning Approach to Parkinsonâ€™s Disease Detection Using Voice Recordings and Convolutional Neural Network Dedicated to Image Classification. , 2019, 2019, 717-720.		57
9	Analysis and evaluation of handwriting in patients with Parkinsonâ€™s disease using kinematic, geometrical, and non-linear features. Computer Methods and Programs in Biomedicine, 2019, 173, 43-52.	2.6	52
10	Convolutional Neural Network to Model Articulation Impairments in Patients with Parkinsonâ€™s Disease. , 0, , .		47
11	Characterisation of voice quality of Parkinsonâ€™s disease using differential phonological posterior features. Computer Speech and Language, 2017, 46, 196-208.	2.9	46
12	Multi-channel spectrograms for speech processing applications using deep learning methods. Pattern Analysis and Applications, 2021, 24, 423-431.	3.1	46
13	Hilbert spectrum analysis for automatic detection and evaluation of Parkinsonâ€™s speech. Biomedical Signal Processing and Control, 2020, 61, 102050.	3.5	38
14	Non-negative matrix factorization-based time-frequency feature extraction of voice signal for Parkinson's disease prediction. Computer Speech and Language, 2021, 69, 101216.	2.9	35
15	Spectral and cepstral analyses for Parkinson's disease detection in Spanish vowels and words. Expert Systems, 2015, 32, 688-697.	2.9	34
16	Towards an automatic monitoring of the neurological state of Parkinson's patients from speech. , 2016, , .		31
17	Parkinsonâ€™s Disease and Aging: Analysis of Their Effect in Phonation and Articulation of Speech. Cognitive Computation, 2017, 9, 731-748.	3.6	28
18	Analysis of Speech from People with Parkinsonâ€™s Disease through Nonlinear Dynamics. Lecture Notes in Computer Science, 2013, , 112-119.	1.0	24

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19	From discourse to pathology: Automatic identification of Parkinson's disease patients via morphological measures across three languages. Cortex, 2020, 132, 191-205.	1.1	24
20	An algorithm for Parkinsonâ€™s disease speech classification based on isolated words analysis. Health Information Science and Systems, 2021, 9, 32.	3.4	24
21	Nonlinear Dynamics for Hypernasality Detection in Spanish Vowels and Words. Cognitive Computation, 2013, 5, 448-457.	3.6	21
22	Nonlinear dynamics characterization of emotional speech. Neurocomputing, 2014, 132, 126-135.	3.5	21
23	Principal component analysis of the spectrogram of the speech signal: Interpretation and application to dysarthric speech. Computer Speech and Language, 2020, 59, 114-122.	2.9	21
24	Machine learning based analysis of speech dimensions in functional oropharyngeal dysphagia. Computer Methods and Programs in Biomedicine, 2021, 208, 106248.	2.6	21
25	Automatic Detection of Parkinsonâ€™s Disease Based on Modulated Vowels. , 0, , .		21
26	Multi-view representation learning via gcca for multimodal analysis of Parkinson's disease. , 2017, , .		19
27	Cepstral Analysis and Hilbert-Huang Transform for Automatic Detection of Parkinsonâ€™s Disease. Tecno LÃ³gicas, 2020, 23, 93-108.	0.1	15
28	Apkinson: the smartphone application for telemonitoring Parkinsonâ€™s patients through speech, gait and hands movement. Neurodegenerative Disease Management, 2020, 10, 137-157.	1.2	14
29	Parkinsonâ€™s Disease Progression Assessment from Speech Using GMM-UBM. , 0, , .		14
30	Convolutional Neural Networks and a Transfer Learning Strategy to Classify Parkinsonâ€™s Disease from Speech in Three Different Languages. Lecture Notes in Computer Science, 2019, , 697-706.	1.0	14
31	Nonlinear dynamics and PoincarÃ© sections to model gait impairments in different stages of Parkinsonâ€™s disease. Nonlinear Dynamics, 2020, 100, 3253-3276.	2.7	13
32	A machine learning perspective on the emotional content of Parkinsonian speech. Artificial Intelligence in Medicine, 2021, 115, 102061.	3.8	13
33	Perceptual Analysis of Speech Signals from People with Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2013, , 201-211.	1.0	13
34	Automatic detection of Parkinson's disease using noise measures of speech. , 2013, , .		11
35	Transfer learning helps to improve the accuracy to classify patients with different speech disorders in different languages. Pattern Recognition Letters, 2021, 150, 272-279.	2.6	10
36	Glottal Flow Patterns Analyses for Parkinsonâ€™s Disease Detection: Acoustic and Nonlinear Approaches. Lecture Notes in Computer Science, 2016, , 400-407.	1.0	9

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37	Automatic assessment of voice signals according to the GRBAS scale using modulation spectra, Mel frequency Cepstral Coefficients and Noise parameters. , 2013, , .		8
38	Natural Language Analysis to Detect Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2019, , 82-90.	1.0	8
39	Phonation and Articulation Analysis of Spanish Vowels for Automatic Detection of Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2014, , 374-381.	1.0	8
40	Nonlinear Dynamics for Hypernasality Detection. Lecture Notes in Computer Science, 2011, , 207-214.	1.0	8
41	Effective detection of abnormal gait patterns in Parkinson's disease patients using kinematics, nonlinear, and stability gait features. Human Movement Science, 2022, 81, 102891.	0.6	8
42	Evaluation of wavelet measures on automatic detection of emotion in noisy and telephony speech signals. , 2014, , .		7
43	New Cues in Low-Frequency of Speech for Automatic Detection of Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2013, , 283-292.	1.0	7
44	An investigation about the relationship between dysarthria level of speech and the neurological state of Parkinsonâ€™s patients. Biocybernetics and Biomedical Engineering, 2022, 42, 710-726.	3.3	7
45	Articulation and Empirical Mode Decomposition Features in Diadochokinetic Exercises for the Speech Assessment of Parkinsonâ€™s Disease Patients. Lecture Notes in Computer Science, 2019, , 688-696.	1.0	6
46	Classification of emotions and evaluation of customer satisfaction from speech in real world acoustic environments. , 2022, 120, 103286.		6
47	Non-linear Dynamics Characterization from Wavelet Packet Transform for Automatic Recognition of Emotional Speech. Smart Innovation, Systems and Technologies, 2016, , 199-207.	0.5	5
48	Effect of acoustic conditions on algorithms to detect Parkinson's disease from speech. , 2017, , .		5
49	Identity Verification in Virtual Education Using Biometric Analysis Based on Keystroke Dynamics. Tecno LÂ³gicas, 2020, 23, 197-211.	0.1	5
50	Empirical Mode Decomposition articulation feature extraction on Parkinsonâ€™s Diadochokinesia. Computer Speech and Language, 2022, 72, 101322.	2.9	5
51	Global Selection of Features for Nonlinear Dynamics Characterization of Emotional Speech. Cognitive Computation, 2013, 5, 517-525.	3.6	4
52	Modulation spectra for automatic detection of Parkinson's disease. , 2014, , .		4
53	Phonological Posteriors and GRU Recurrent Units to Assess Speech Impairments of Patients with Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2018, , 453-461.	1.0	4
54	Comparison of User Models Based on GMM-UBM and I-Vectors for Speech, Handwriting, and Gait Assessment of Parkinsonâ€™s Disease Patients. , 2020, , .		4

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55	Is There Any Additional Information inÂaÂNeural Network Trained forÂPathological Speech Classification?. Lecture Notes in Computer Science, 2021, , 435-447.	1.0	4
56	Automatic Detection of Parkinsonâ€™s Disease from Compressed Speech Recordings. Lecture Notes in Computer Science, 2015, , 88-95.	1.0	4
57	Automatic Personality Evaluation from Transliterations of YouTube Vlogs Using Classical and State of the art Word Embeddings. Ingenieria E Investigacion, 2022, 42, e93803.	0.2	4
58	Word accuracy and dynamic time warping to assess intelligibility deficits in patients with Parkinsons disease. , 2016, , .		3
59	Transfer Learning to Detect Parkinsonâ€™s Disease from Speech In Different Languages Using Convolutional Neural Networks with Layer Freezing. Lecture Notes in Computer Science, 2020, , 331-339.	1.0	3
60	Word-Embeddings and Grammar Features to Detect Language Disorders in Alzheimerâ€™s Disease Patients. Tecno LÃ³gicas, 2020, 23, 63-75.	0.1	3
61	Automatic detection of hypernasal speech of children with cleft lip and palate from spanish vowels and words using classical measures and nonlinear analysis. Revista Facultad De IngenierÃa, 2016, , .	0.5	3
62	Acoustic Characteristics of VOT in Plosive Consonants Produced by Parkinsonâ€™s Patients. Lecture Notes in Computer Science, 2020, , 303-311.	1.0	3
63	The phonetic footprint of Parkinsonâ€™s disease. Computer Speech and Language, 2022, 72, 101321.	2.9	3
64	Colombian Dialect Recognition Based on Information Extracted from Speech and Text Signals. , 2021, , .		3
65	Reply to: â€œDoes Cognitive Impairment Influence Motor Speech Performance in De Novo Parkinson's Diseaseâ€• Movement Disorders, 2021, 36, 2982-2983.	2.2	3
66	Design and implementation of an embedded system for real time analysis of speech from people with Parkinson's disease. , 2013, , .		2
67	Language Independent Assessment of Motor Impairments of Patients with Parkinsonâ€™s Disease Using i-Vectors. Lecture Notes in Computer Science, 2017, , 147-155.	1.0	2
68	Phonological i-Vectors to Detect Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2018, , 462-470.	1.0	2
69	Automatic Intelligibility Assessment of Parkinsonâ€™s Disease with Diadochokinetic Exercises. Communications in Computer and Information Science, 2018, , 223-230.	0.4	2
70	End-2-End Modeling of Speech and Gait from Patients with Parkinsonâ€™s Disease: Comparison Between High Quality Vs. Smartphone Data. , 2021, , .		2
71	Automatic Detection of Laryngeal Pathologies in Running Speech Based on the HMM Transformation of the Nonlinear Dynamics. Lecture Notes in Computer Science, 2013, , 136-143.	1.0	2
72	Disruptions of frontostriatal language functions in Parkinson's disease. , 2020, , 413-430.		2

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73	Classification of Poverty Condition Using Natural Language Processing. Social Indicators Research, 2022, 162, 1413-1435.	1.4	2
74	Author Profiling in Informal and Formal Language Scenarios Via Transfer Learning. Tecno LÃ³gicas, 2021, 24, e2166.	0.1	2
75	On-line signature verification using Gaussian Mixture Models and small-sample learning strategies. Revista Facultad De IngenierÃa, 2016, , .	0.5	1
76	Emotional State Modeling for the Assessment of Depression in Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2021, , 457-468.	1.0	1
77	Parkinsonâ€™s Disease Progression Assessment from Speech Using a Mobile Device-Based Application. Lecture Notes in Computer Science, 2017, , 371-379.	1.0	1
78	Articulation Analysis in the Speech of Children with Cleft Lip and Palate. Lecture Notes in Computer Science, 2019, , 575-585.	1.0	1
79	CorrelaciÃ³n entre espacios de caracterÃsticas acÃºsticas del habla y trastornos clÃnicos de la voz en pacientes con disfagia. Tecno LÃ³gicas, 2022, 25, e2220.	0.1	1
80	Feature selection for hypernasality detection using PCA, LDA, kernel PCA and greedy kernel PCA. , 2012, , .		0
81	Evaluation of the effects of speech enhancement algorithms on the detection of fundamental frequency of speech. , 2014, , .		0
82	Time Dependent ARMA for Automatic Recognition of Fear-Type Emotions in Speech. Lecture Notes in Computer Science, 2015, , 96-104.	1.0	0
83	A new speech corpus in Spanish for speaker verification. , 2016, , .		0
84	Automatic Classification of Energy Consumption Profiles in Processes of the Oil & Gas Industry in Colombia. Communications in Computer and Information Science, 2021, , 49-59.	0.4	0
85	Robust Automatic Speech Recognition for Call Center Applications. Communications in Computer and Information Science, 2021, , 72-83.	0.4	0
86	Speaker Model to Monitor the Neurological State and the Dysarthria Level of Patients with Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2017, , 272-280.	1.0	0
87	Aproximante [Ã°Ìž] en contexto -ado en el habla de MedellÃn: prueba experimental para la identificaciÃ³n automÃ¡tica de variantes alofÃ³nicas y su caracterizaciÃ³n acÃºstica. Lenguaje, 2019, 47, 514-536.	0.1	0