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List of Publications by Year
in descending order

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87 papers	2,965 citations	136740 32 h-index	174990 52 g-index
90 all docs	90 docs citations	90 times ranked	1908 citing authors

#	Article	IF	Citations
1	On the design of automatic voice condition analysis systems. Part III: review of acoustic modelling strategies. Biomedical Signal Processing and Control, 2021, 66, 102049.	3.5	12
2	Advances in Parkinson's Disease detection and assessment using voice and speech: A review of the articulatory and phonatory aspects. Biomedical Signal Processing and Control, 2021, 66, 102418.	3.5	80
3	Influence of Upper Airway Surgery on Voice and Speech Recognition. Journal of Craniofacial Surgery, 2021, 32, 660-663.	0.3	0
4	Effect of Functional Endoscopic Sinus Surgery on Voice and Speech Recognition. Journal of Voice, 2020, 34, 650.e1-650.e6.	0.6	4
5	Multimodal and Multi-Output Deep Learning Architectures for the Automatic Assessment of Voice Quality Using the GRB Scale. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 413-422.	7.3	9
6	Cardiopulmonary Activity Monitoring Using Millimeter Wave Radars. Remote Sensing, 2020, 12, 2265.	1.8	25
7	Introduction to the Issue on Automatic Assessment of Health Disorders Based on Voice, Speech, and Language Processing. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 234-239.	7.3	3
8	Laryngeal Image Processing of Vocal Folds Motion. Applied Sciences (Switzerland), 2020, 10, 1556.	1.3	22
9	Analysis of the Effects of Supraglottal Tract Surgical Procedures in Automatic Speaker Recognition Performance. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 798-812.	4.0	2
10	Artificial Intelligence Applied to Chest X-Ray Images for the Automatic Detection of COVID-19. A Thoughtful Evaluation Approach. IEEE Access, 2020, 8, 226811-226827.	2.6	70
11	Approaches to Evaluate Parkinsonian Speech Using Artificial Models. Communications in Computer and Information Science, 2020, , 77-99.	0.4	1
12	Emulating the perceptual capabilities of a human evaluator to map the GRB scale for the assessment of voice disorders. Engineering Applications of Artificial Intelligence, 2019, 82, 236-251.	4.3	8
13	On the design of automatic voice condition analysis systems. Part I: Review of concepts and an insight to the state of the art. Biomedical Signal Processing and Control, 2019, 51, 181-199.	3.5	41
14	Effect of Septoplasty On Voice Performance: Nasalance and Acoustic Study. Journal of Craniofacial Surgery, 2019, 30, 1000-1003.	0.3	5
15	Phonetic relevance and phonemic grouping of speech in the automatic detection of Parkinsonâ€™s Disease. Scientific Reports, 2019, 9, 19066.	1.6	32
16	On the design of automatic voice condition analysis systems. Part II: Review of speaker recognition techniques and study on the effects of different variability factors. Biomedical Signal Processing and Control, 2019, 48, 128-143.	3.5	34
17	A forced gaussians based methodology for the differential evaluation of Parkinson's Disease by means of speech processing. Biomedical Signal Processing and Control, 2019, 48, 205-220.	3.5	44
18	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

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19	ByoVoz Automatic Voice Condition Analysis System for the 2018 FEMH Challenge. , 2018, , .		3
20	Study of the Automatic Detection of Parkisonâ€™s Disease Based on Speaker Recognition Technologies and Allophonic Distillation. , 2018, 2018, 1404-1407.		5
21	Synthesizing the motion of the vocal folds using optical flow based techniques. Biomedical Signal Processing and Control, 2017, 34, 25-35.	3.5	6
22	Glottal Gap tracking by a continuous background modeling using inpainting. Medical and Biological Engineering and Computing, 2017, 55, 2123-2141.	1.6	8
23	Towards the identification of Idiopathic Parkinsonâ€™s Disease from the speech. New articulatory kinetic biomarkers. PLoS ONE, 2017, 12, e0189583.	1.1	52
24	Voice Pathology Detection Using Modulation Spectrum-Optimized Metrics. Frontiers in Bioengineering and Biotechnology, 2016, 4, 1.	2.0	89
25	Analysis of Measured and Simulated Supraglottal Acoustic Waves. Journal of Voice, 2016, 30, 518-528.	0.6	2
26	An insight to the automatic categorization of speakers according to sex and its application to the detection of voice pathologies: A comparative study. Revista Facultad De IngenierÃa, 2016, , .	0.5	0
27	An automatic method to detect and track the glottal gap from high speed videoendoscopic images. BioMedical Engineering OnLine, 2015, 14, 100.	1.3	18
28	Entropies from Markov Models as Complexity Measures of Embedded Attractors. Entropy, 2015, 17, 3595-3620.	1.1	13
29	Modulation Spectra Morphological Parameters: A New Method to Assess Voice Pathologies according to the GRBAS Scale. BioMed Research International, 2015, 2015, 1-13.	0.9	17
30	Simulation of tremulous voices using a biomechanical model. Eurasip Journal on Audio, Speech, and Music Processing, 2015, 2015, .	1.3	9
31	ROI detection in high speed laryngeal images. , 2014, , .		3
32	Cepstral peak prominence: A comprehensive analysis. Biomedical Signal Processing and Control, 2014, 14, 42-54.	3.5	85
33	Non uniform Embedding based on Relevance Analysis with reduced computational complexity: Application to the detection of pathologies from biosignal recordings. Neurocomputing, 2014, 132, 148-158.	3.5	14
34	Automatic assessment of voice signals according to the GRBAS scale using modulation spectra, Mel frequency Cepstral Coefficients and Noise parameters. , 2013, , .		8
35	Characterization of Dysphonic Voices by Means of a Filterbank-Based Spectral Analysis: Sustained Vowels and Running Speech. Journal of Voice, 2013, 27, 11-23.	0.6	25
36	Influence of delay time on regularity estimation for voice pathology detection. , 2012, 2012, 4217-20.		4

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37	Objective measurements to evaluate glottal space segmentation from laryngeal images. , 2012, 2012, 5396-9.		1
38	Analysis of the Validity of E-assessment and Self-Assessment in Formal Assessment in Electrical and Electronics Engineering Studies through a Case Study. , 2012, , .		1
39	Timeâ€“frequency based feature selection for discrimination of non-stationary biosignals. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	11
40	Physical simulation of laryngeal disorders using a multiple-mass vocal fold model. Biomedical Signal Processing and Control, 2012, 7, 65-78.	3.5	12
41	Towards collaborative work among speech therapists, phoniatricians, and ENT professionals: Analysis of the impact of ciphering techniques in the performance of an integrated tool for the diagnosis of voice disorders. Biomedical Signal Processing and Control, 2012, 7, 27-36.	3.5	1
42	Zero-padding or cyclic prefix for MDFT-based filter bank multicarrier communications. Signal Processing, 2012, 92, 1646-1657.	2.1	11
43	â€œDesign for All in the Context of the Information Societyâ€: Integration of a Specialist Course in a Generalist M.Sc. Program in Electrical and Electronics Engineering. IEEE Transactions on Education, 2012, 55, 107-117.	2.0	3
44	Towards objective evaluation of perceived roughness and breathiness: An approach based on mel-frequency cepstral analysis. Logopedics Phoniatrics Vocology, 2011, 36, 52-59.	0.5	5
45	P2P Multiuser Low-Cost Universal Solution for On-Demand GPS Positioning and Tracking in Large Environments. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1385-1397.	4.7	6
46	Automatic Detection of Pathological Voices Using Complexity Measures, Noise Parameters, and Mel-Cepstral Coefficients. IEEE Transactions on Biomedical Engineering, 2011, 58, 370-379.	2.5	123
47	On combining information from modulation spectra and mel-frequency cepstral coefficients for automatic detection of pathological voices. Logopedics Phoniatrics Vocology, 2011, 36, 60-69.	0.5	59
48	MDFT filter bank multicarrier systems with multiple transmission zeros. , 2011, , .		1
49	Glottal Inverse Filtering of Speech Based on Homomorphic Prediction: A Cepstrum-Based Algorithm Not Requiring Prior Detection of Either Pitch or Glottal Closure. Communications in Computer and Information Science, 2011, , 238-251.	0.4	1
50	Polyphase FIR Networks Based on Frequency Sampling for Multirate DSP Applications. Circuits, Systems, and Signal Processing, 2010, 29, 169-181.	1.2	5
51	Selection of Dynamic Features Based on Timeâ€“Frequency Representations for Heart Murmur Detection from Phonocardiographic Signals. Annals of Biomedical Engineering, 2010, 38, 118-137.	1.3	70
52	Feature Extraction From Parametric Timeâ€“Frequency Representations for Heart Murmur Detection. Annals of Biomedical Engineering, 2010, 38, 2716-2732.	1.3	58
53	An improved method for voice pathology detection by means of a HMM-based feature space transformation. Pattern Recognition, 2010, 43, 3100-3112.	5.1	65
54	On improvement of detection of Obstructive Sleep Apnea by partial least square-based extraction of dynamic features. , 2010, 2010, 6321-4.		1

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55	The Effectiveness of the Glottal to Noise Excitation Ratio for the Screening of Voice Disorders. Journal of Voice, 2010, 24, 47-56.	0.6	68
56	Pathological Likelihood Index as a Measurement ofÂthe Degree of Voice Normality and Perceived Hoarseness. Journal of Voice, 2010, 24, 667-677.	0.6	24
57	Effect of a Simulated Analogue Telephone Channel on the Performance of a Remote Automatic System for the Detection of Pathologies in Voice: Impact of Linear Distortions on Cepstrum-Based Assessment - Band Limitation, Frequency Response and Additive Noise. Communications in Computer and Information Science, 2010, , 173-186.	0.4	1
58	Dysphonia detection based on modulation spectral features and cepstral coefficients. , 2010, , .		23
59	Nonlinear Trend Estimation of the Ventricular Repolarization Segment for T-Wave Alternans Detection. IEEE Transactions on Biomedical Engineering, 2010, 57, 2402-2412.	2.5	39
60	Automatic Detection of Laryngeal Pathologies in Records of Sustained Vowels by Means of Mel-Frequency Cepstral Coefficient Parameters and Differentiation of Patients by Sex. Folia Phoniatrica Et Logopaedica, 2009, 61, 146-152.	0.5	49
61	Characterization of Healthy and Pathological Voice Through Measures Based on Nonlinear Dynamics. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1186-1195.	3.8	115
62	Digital Auscultation Analysis for Heart Murmur Detection. Annals of Biomedical Engineering, 2009, 37, 337-353.	1.3	71
63	Automatic detection of voice impairments from text-dependent running speech. Biomedical Signal Processing and Control, 2009, 4, 176-182.	3.5	41
64	Glottal Source biometrical signature for voice pathology detection. Speech Communication, 2009, 51, 759-781.	1.6	86
65	Complexity analysis of pathological voices by means of hidden markov entropy measurements. , 2009, 2009, 2248-51.		10
66	Analysis and Signal Processing of Oesophageal and Pathological Voices. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	6
67	Acoustic analysis of voice using WPCVox: a comparative study with Multi Dimensional Voice Program. European Archives of Oto-Rhino-Laryngology, 2008, 265, 465-476.	0.8	55
68	Embedded filter bank-based algorithm for ECG compression. Signal Processing, 2008, 88, 1402-1412.	2.1	36
69	Segmentation of the glottal space from laryngeal images using the watershed transform. Computerized Medical Imaging and Graphics, 2008, 32, 193-201.	3.5	40
70	Effects of Audio Compression in Automatic Detection of Voice Pathologies. IEEE Transactions on Biomedical Engineering, 2008, 55, 2831-2835.	2.5	14
71	Automatic Detection of Laryngeal Pathology on Sustained Vowels Using Short-Term Cepstral Parameters: Analysis of Performance and Theoretical Justification. Communications in Computer and Information Science, 2008, , 228-241.	0.4	0
72	An improved watershed algorithm based on efficient computation of shortest paths. Pattern Recognition, 2007, 40, 1078-1090.	5.1	89

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73	Wavelet Packets Feasibility Study for the Design of an ECG Compressor. IEEE Transactions on Biomedical Engineering, 2007, 54, 766-769.	2.5	43
74	Methodological issues in the development of automatic systems for voice pathology detection. Biomedical Signal Processing and Control, 2006, 1, 120-128.	3.5	141
75	An integrated tool for the diagnosis of voice disorders. Medical Engineering and Physics, 2006, 28, 276-289.	0.8	37
76	Dimensionality Reduction of a Pathological Voice Quality Assessment System Based on Gaussian Mixture Models and Short-Term Cepstral Parameters. IEEE Transactions on Biomedical Engineering, 2006, 53, 1943-1953.	2.5	260
77	Kernel Principal Component Analysis through Time for Voice Disorder Classification. , 2006, 2006, 5511-4.		6
78	Automatic Assessment of Voice Quality According to the GRBAS Scale. , 2006, 2006, 2478-81.		32
79	On the use of PRD and CR parameters for ECG compression. Medical Engineering and Physics, 2005, 27, 798-802.	0.8	68
80	ECG compression with retrieved quality guaranteed. Electronics Letters, 2004, 40, 1466.	0.5	87
81	Automatic Detection of Voice Impairments by Means of Short-Term Cepstral Parameters and Neural Network Based Detectors. IEEE Transactions on Biomedical Engineering, 2004, 51, 380-384.	2.5	213
82	Diagnosis of vocal and voice disorders by the speech signal. , 2000, , .		15
83	Non supervised neural net applied to the detection of voice impairment. , 0, , .		0
84	Evidence of Glottal Source Spectral Features found in Vocal Fold Dynamics. , 0, , .		5
85	Analysis of the impact of analogue telephone channel on MFCC parameters for voice pathology detection. , 0, , .		5
86	Automatic gender recognition in normal and pathological speech. , 0, , .		0
87	Automatic glottal tracking from high-speed digital images using a continuous normalized cross correlation. , 0, , .		0