Yaniv Zigel

List of Publications by Year
in descending order

45	1,248	567144	526166
papers	citations	15	27
		h-index	g-index

45	45	45	1325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Method for Automatic Fall Detection of Elderly People Using Floor Vibrations and Sound—Proof of Concept on Human Mimicking Doll Falls. IEEE Transactions on Biomedical Engineering, 2009, 56, 2858-2867.	2.5	298
2	ECG signal compression using analysis by synthesis coding. IEEE Transactions on Biomedical Engineering, 2000, 47, 1308-1316.	2.5	131
3	Automatic Detection of Whole Night Snoring Events Using Non-Contact Microphone. PLoS ONE, 2013, 8, e84139.	1.1	92
4	Obstructive Apnea Hypopnea Index Estimation by Analysis of Nocturnal Snoring Signals in Adults. Sleep, 2012, 35, 1299-1305.	0.6	88
5	Automatic Detection of Obstructive Sleep Apnea Using Speech Signals. IEEE Transactions on Biomedical Engineering, 2011, 58, 1373-1382.	2.5	64
6	Fall detection of elderly through floor vibrations and sound. , 2008, 2008, 4632-5.		58
7	Supervector Dimension Reduction for Efficient Speaker Age Estimation Based on the Acoustic Speech Signal. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1975-1985.	3.8	47
8	Sleep staging using nocturnal sound analysis. Scientific Reports, 2018, 8, 13474.	1.6	47
9	Sleep-Wake Evaluation from Whole-Night Non-Contact Audio Recordings of Breathing Sounds. PLoS ONE, 2015, 10, e0117382.	1.1	40
10	Breathing and Snoring Sound Characteristics during Sleep in Adults. Journal of Clinical Sleep Medicine, 2016, 12, 375-384.	1.4	39
11	Advances in Audio-Based Systems to Monitor Patient Adherence and Inhaler Drug Delivery. Chest, 2018, 153, 710-722.	0.4	38
12	Estimating Autism Severity in Young Children From Speech Signals Using a Deep Neural Network. IEEE Access, 2020, 8, 139489-139500.	2.6	36
13	Adenotonsillectomy improves slow-wave activity in children with obstructive sleep apnoea. European Respiratory Journal, 2011, 37, 1144-1150.	3.1	25
14	Objective Assessment of Patient Inhaler User Technique Using an Audio-Based Classification Approach. Scientific Reports, 2018, 8, 2164.	1.6	25
15	Supraventricular Tachycardia Classification in the 12-Lead ECG Using Atrial Waves Detection and a Clinically Based Tree Scheme. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1513-1520.	3.9	22
16	Reverberation matching for speaker recognition. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	20
17	Nocturnal sound analysis for the diagnosis of obstructive sleep apnea. , 2010, 2010, 6146-9.		19
18	Atrial Electrical Activity Detection Using Linear Combination of 12-Lead ECG Signals. IEEE Transactions on Biomedical Engineering, 2014, 61, 1034-1043.	2.5	15

#	Article	IF	Citations
19	How to Deal with Multiple-Targets in Speaker Identification Systems?. , 2006, , .		14
20	Detection of falls at home using floor vibrations and sound. , 2008, , .		14
21	Diagnosis of Obstructive Sleep Apnea Using Speech Signals From Awake Subjects. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 251-260.	7.3	14
22	Detecting Masses in Mammograms using Convolutional Neural Networks and Transfer Learning. , 2018, , .		11
23	A new computeraided detection approach based on analysis of local and global mammographic feature asymmetry. Medical Physics, 2018, 45, 1459-1470.	1.6	9
24	Room Acoustics Parameters Affecting Speaker Recognition Degradation Under Reverberation. , 2008, , .		8
25	The Effect of GMM Order and CMS on Speaker Recognition with Reverberant Speech. , 2008, , .		7
26	Feature selection for room volume identification from room impulse response. , 2009, , .		7
27	Dimension reduction approaches for SVM based speaker age estimation. , 0, , .		7
28	The effect of room parameters on speaker verification using reverberant speech. , 2008, , .		6
29	Room volume classification from room impulse response using statistical pattern recognition and feature selection. Journal of the Acoustical Society of America, 2010, 128, 1155.	0.5	6
30	Diurnal and seasonal variation of cough episodes in healthy young adults. Journal of Asthma, 2016, 53, 295-300.	0.9	6
31	Cough detection using a non-contact microphone: A nocturnal cough study. PLoS ONE, 2022, 17, e0262240.	1.1	6
32	Analysis of speech signals among obstructive sleep apnea patients. , 2008, , .		5
33	Cardiac arrhythmia classification in 12-lead ECG using synthetic atrial activity signal. , 2012, , .		5
34	The effect of reverberation on the performance of cepstral mean subtraction in speaker verification. Applied Acoustics, 2011, 72, 124-126.	1.7	4
35	Effective Model Representation by Information Bottleneck Principle. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1755-1759.	3.8	4
36	Towards Room-Volume Classification from Reverberant Speech using Room-Volume Feature Extraction and Room-Acoustics Parameters. Acta Acustica United With Acustica, 2013, 99, 658-669.	0.8	3

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37	Automatic Audio-Based Classification of Patient Inhaler Use: A Pharmacy Based Study. , 2019, 2019, 2606-2609.		2
38	Editorial on Remote Health Monitoring: from chronic diseases to pandemics. Physiological Measurement, 2020, 41, 100401.	1.2	2
39	Audio source separation to reduce sleeping partner sounds: a simulation study. Physiological Measurement, 2021, 42, 064004.	1.2	2
40	A Surface ECG-Based Algorithm to Determine the Atrial Refractoriness of Rodents During Electrophysiological Study. Cardiovascular Engineering and Technology, 2011, 2, 388-398.	0.7	1
41	Sleep Evaluation Using Audio Signal Processing. , 2018, , 249-266.		1
42	Reverberation compensation for speaker verification. , 2008, , .		0
43	A new computer-aided detection scheme based on assessment of local bilateral mammographic feature asymmetry - a preliminary evaluation. , 2015, 2015, 6394-7.		0
44	Spatial acoustic radiation of respiratory sounds for sleep evaluation. Journal of the Acoustical Society of America, 2017, 142, 1291-1302.	0.5	0
45	A Speech Obfuscation System to Preserve Data Privacy in 24-Hour Ambulatory Cough Monitoring. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 188-196.	7.3	0