Yaniv Zigel

List of Publications by Year
in descending order

45 papers	1,248 citations	567144 15 h-index	526166 27 g-index
45 all docs	45 docs citations	45 times ranked	1325 citing authors

#	Article	IF	Citations
1	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
2	Cough detection using a non-contact microphone: A nocturnal cough study. PLoS ONE, 2022, 17, e0262240.	1.1	6
3	Audio source separation to reduce sleeping partner sounds: a simulation study. Physiological Measurement, 2021, 42, 064004.	1.2	2
4	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
5	Estimating Autism Severity in Young Children From Speech Signals Using a Deep Neural Network. IEEE Access, 2020, 8, 139489-139500.	2.6	36
6	Editorial on Remote Health Monitoring: from chronic diseases to pandemics. Physiological Measurement, 2020, 41, 100401.	1.2	2
7	Automatic Audio-Based Classification of Patient Inhaler Use: A Pharmacy Based Study. , 2019, 2019, 2606-2609.		2
8	Sleep Evaluation Using Audio Signal Processing. , 2018, , 249-266.		1
9	A new computer‑aided detection approach based on analysis of local and global mammographic feature asymmetry. Medical Physics, 2018, 45, 1459-1470.	1.6	9
10	Objective Assessment of Patient Inhaler User Technique Using an Audio-Based Classification Approach. Scientific Reports, 2018, 8, 2164.	1.6	25
11	Advances in Audio-Based Systems to Monitor Patient Adherence and Inhaler Drug Delivery. Chest, 2018, 153, 710-722.	0.4	38
12	Detecting Masses in Mammograms using Convolutional Neural Networks and Transfer Learning. , 2018, , .		11
13	Sleep staging using nocturnal sound analysis. Scientific Reports, 2018, 8, 13474.	1.6	47
14	Spatial acoustic radiation of respiratory sounds for sleep evaluation. Journal of the Acoustical Society of America, 2017, 142, 1291-1302.	0.5	0
15	Breathing and Snoring Sound Characteristics during Sleep in Adults. Journal of Clinical Sleep Medicine, 2016, 12, 375-384.	1.4	39
16	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
17	Diurnal and seasonal variation of cough episodes in healthy young adults. Journal of Asthma, 2016, 53, 295-300.	0.9	6
18	Sleep-Wake Evaluation from Whole-Night Non-Contact Audio Recordings of Breathing Sounds. PLoS ONE, 2015, 10, e0117382.	1.1	40

#	Article	IF	Citations
19	A new computer-aided detection scheme based on assessment of local bilateral mammographic feature asymmetry - a preliminary evaluation. , 2015, 2015, 6394-7.		0
20	Atrial Electrical Activity Detection Using Linear Combination of 12-Lead ECG Signals. IEEE Transactions on Biomedical Engineering, 2014, 61, 1034-1043.	2.5	15
21	Effective Model Representation by Information Bottleneck Principle. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1755-1759.	3.8	4
22	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
23	Automatic Detection of Whole Night Snoring Events Using Non-Contact Microphone. PLoS ONE, 2013, 8, e84139.	1.1	92
24	Obstructive Apnea Hypopnea Index Estimation by Analysis of Nocturnal Snoring Signals in Adults. Sleep, 2012, 35, 1299-1305.	0.6	88
25	Cardiac arrhythmia classification in 12-lead ECG using synthetic atrial activity signal. , 2012, , .		5
26	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
27	Automatic Detection of Obstructive Sleep Apnea Using Speech Signals. IEEE Transactions on Biomedical Engineering, 2011, 58, 1373-1382.	2.5	64
28	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
29	The effect of reverberation on the performance of cepstral mean subtraction in speaker verification. Applied Acoustics, 2011, 72, 124-126.	1.7	4
30	Adenotonsillectomy improves slow-wave activity in children with obstructive sleep apnoea. European Respiratory Journal, 2011, 37, 1144-1150.	3.1	25
31	Nocturnal sound analysis for the diagnosis of obstructive sleep apnea. , 2010, 2010, 6146-9.		19
32	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
33	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
34	Feature selection for room volume identification from room impulse response. , 2009, , .		7
35	Detection of falls at home using floor vibrations and sound. , 2008, , .		14
36	Room Acoustics Parameters Affecting Speaker Recognition Degradation Under Reverberation. , 2008, , .		8

#	Article	IF	Citations
37	The Effect of GMM Order and CMS on Speaker Recognition with Reverberant Speech. , 2008, , .		7
38	Analysis of speech signals among obstructive sleep apnea patients. , 2008, , .		5
39	Reverberation matching for speaker recognition. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	20
40	Reverberation compensation for speaker verification. , 2008, , .		0
41	The effect of room parameters on speaker verification using reverberant speech. , 2008, , .		6
42	Fall detection of elderly through floor vibrations and sound. , 2008, 2008, 4632-5.		58
43	How to Deal with Multiple-Targets in Speaker Identification Systems?. , 2006, , .		14
44	ECG signal compression using analysis by synthesis coding. IEEE Transactions on Biomedical Engineering, 2000, 47, 1308-1316.	2.5	131
45	Dimension reduction approaches for SVM based speaker age estimation. , 0, , .		7