

# Udantha Abeyratne

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7246738/publications.pdf>

Version: 2024-02-01

41  
papers

1,148  
citations

430754

18  
h-index

395590

33  
g-index

45  
all docs

45  
docs citations

45  
times ranked

850  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pitch jump probability measures for the analysis of snoring sounds in apnea. <i>Physiological Measurement</i> , 2005, 26, 779-798.	1.2	118
2	Could formant frequencies of snore signals be an alternative means for the diagnosis of obstructive sleep apnea?. <i>Sleep Medicine</i> , 2008, 9, 894-898.	0.8	113
3	A prospective multicentre study testing the diagnostic accuracy of an automated cough sound centred analytic system for the identification of common respiratory disorders in children. <i>Respiratory Research</i> , 2019, 20, 81.	1.4	90
4	Cough Sound Analysis Can Rapidly Diagnose Childhood Pneumonia. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2448-2462.	1.3	87
5	Silenceâ€“breathingâ€“snore classification from snore-related sounds. <i>Physiological Measurement</i> , 2008, 29, 227-243.	1.2	77
6	On modeling the tissue response from ultrasonic B-scan images. <i>IEEE Transactions on Medical Imaging</i> , 1996, 15, 479-490.	5.4	60
7	Automatic Identification of Wet and Dry Cough in Pediatric Patients with Respiratory Diseases. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1016-1028.	1.3	55
8	Mixed-phase modeling in snore sound analysis. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 791-806.	1.6	45
9	Ultrasonic technique for non-destructive quality evaluation of oranges. <i>Journal of Food Engineering</i> , 2014, 141, 107-112.	2.7	41
10	Investigation of Obstructive Sleep Apnea Using Nonlinear Mode Interactions in Nonstationary Snore Signals. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1796-1806.	1.3	36
11	Obstructive sleep apnea screening by integrating snore feature classes. <i>Physiological Measurement</i> , 2013, 34, 99-121.	1.2	36
12	Objective measure of sleepiness and sleep latency via bispectrum analysis of EEG. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 1203-1213.	1.6	32
13	Snore Signal Enhancement and Activity Detection via Translation-Invariant Wavelet Transform. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 2332-2342.	2.5	30
14	Nonlinear Features for Single-Channel Diagnosis of Sleep-Disordered Breathing Diseases. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1973-1981.	2.5	23
15	A state transition-based method for quantifying EEG sleep fragmentation. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 1053-1061.	1.6	22
16	Wavelet transforms in estimating scatterer spacing from ultrasound echoes. <i>Ultrasonics</i> , 2000, 38, 688-692.	2.1	21
17	Interhemispheric Asynchrony Correlates With Severity of Respiratory Disturbance Index in Patients With Sleep Apnea. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2947-2955.	2.5	21
18	Artificial neural networks for breathing and snoring episode detection in sleep sounds. <i>Physiological Measurement</i> , 2012, 33, 1675-1689.	1.2	20

#	ARTICLE	IF	CITATIONS
19	EEG SOURCE LOCALIZATION: A COMPARATIVE STUDY OF CLASSICAL AND NEURAL NETWORK METHODS. International Journal of Neural Systems, 2001, 11, 349-359.	3.2	18
20	A method to screen obstructive sleep apnea using multi-variable non-intrusive measurements. Physiological Measurement, 2011, 32, 445-465.	1.2	17
21	Stratifying asthma severity in children using cough sound analytic technology. Journal of Asthma, 2021, 58, 160-169.	0.9	16
22	Diagnosing Chronic Obstructive Airway Disease on a Smartphone Using Patient-Reported Symptoms and Cough Analysis: Diagnostic Accuracy Study. JMIR Formative Research, 2020, 4, e24587.	0.7	16
23	Identifying acute exacerbations of chronic obstructive pulmonary disease using patient-reported symptoms and cough feature analysis. Npj Digital Medicine, 2021, 4, 107.	5.7	15
24	High frequency region of the snore spectra carry important information on the disease of sleep apnoea. Journal of Medical Engineering and Technology, 2011, 35, 425-431.	0.8	14
25	Diagnosing community-acquired pneumonia via a smartphone-based algorithm: a prospective cohort study in primary and acute-care consultations. British Journal of General Practice, 2021, 71, e258-e265.	0.7	13
26	Inter-hemispheric asynchrony of the brain during events of apnoea and EEG arousals. Physiological Measurement, 2007, 28, 869-880.	1.2	11
27	Ultrasound scatter-spacing based diagnosis of focal diseases of the liver. Biomedical Signal Processing and Control, 2007, 2, 9-15.	3.5	11
28	A region and gradient based active contour model and its application in boundary tracking on anal canal ultrasound images. Pattern Recognition, 2007, 40, 3522-3539.	5.1	11
29	Impact of gender on snore-based obstructive sleep apnea screening. Physiological Measurement, 2012, 33, 587-601.	1.2	11
30	ARMA-based spectral bandwidth for evaluation of bowel motility by the analysis of bowel sounds. Physiological Measurement, 2013, 34, 925-936.	1.2	11
31	The diagnosis of respiratory disease in children using a phone-based cough and symptom analysis algorithm: The smartphone recordings of cough sounds 2 (SMARTCOUGH-C 2) trial design. Contemporary Clinical Trials, 2021, 101, 106278.	0.8	10
32	System reconstruction from higher order spectra slices. IEEE Transactions on Signal Processing, 1997, 45, 2241-2251.	3.2	9
33	Signal shape feature for automatic snore and breathing sounds classification. Physiological Measurement, 2014, 35, 2489-2499.	1.2	8
34	Tracking the states of a nonlinear and nonstationary system in the weight-space of artificial neural networks. Medical and Biological Engineering and Computing, 2006, 44, 146-159.	1.6	5
35	Polysomnographic risk factors for vigilance-related cognitive decline and obstructive sleep apnea. Sleep and Breathing, 2021, 25, 75-83.	0.9	5
36	Gas and Optical Sensing Technology for the Field Assessment of Transformer Oil. International Journal of Emerging Electric Power Systems, 2010, 11, .	0.6	4

#	ARTICLE	IF	CITATIONS
37	Exhaustive mathematical analysis of simple clinical measurements for childhood pneumonia diagnosis. World Journal of Pediatrics, 2017, 13, 446-456.	0.8	4
38	Diagnostic Errors Are Common in Acute Pediatric Respiratory Disease: A Prospective, Single-Blinded Multicenter Diagnostic Accuracy Study in Australian Emergency Departments. Frontiers in Pediatrics, 2021, 9, 736018.	0.9	4
39	Gender dependant snore sound based multi feature obstructive sleep apnea screening method. , 2012, 2012, 6353-6.		3
40	A smartphone-based algorithm comprising cough analysis and patient-reported symptoms identifies acute exacerbations of asthma: a prospective, double blind, diagnostic accuracy study. Journal of Asthma, 2023, 60, 368-376.	0.9	3
41	Bispectral analysis of single channel EEG to estimate macro-sleep-architecture. International Journal of Medical Engineering and Informatics, 2014, 6, 43.	0.2	1