Udantha Abeyratne

List of Publications by Year
in descending order

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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	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
2	Polysomnographic risk factors for vigilance-related cognitive decline and obstructive sleep apnea. Sleep and Breathing, 2021, 25, 75-83.	0.9	5
3	Stratifying asthma severity in children using cough sound analytic technology. Journal of Asthma, 2021, 58, 160-169.	0.9	16
4	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
5	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
6	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
7	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
8	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
9	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. Respiratory Research, 2019, 20, 81.	1.4	90
10	Exhaustive mathematical analysis of simple clinical measurements for childhood pneumonia diagnosis. World Journal of Pediatrics, 2017, 13, 446-456.	0.8	4
11	Signal shape feature for automatic snore and breathing sounds classification. Physiological Measurement, 2014, 35, 2489-2499.	1.2	8
12	Bispectral analysis of single channel EEG to estimate macro-sleep-architecture. International Journal of Medical Engineering and Informatics, 2014, 6, 43.	0.2	1
13	Ultrasonic technique for non-destructive quality evaluation of oranges. Journal of Food Engineering, 2014, 141, 107-112.	2.7	41
14	Obstructive sleep apnea screening by integrating snore feature classes. Physiological Measurement, 2013, 34, 99-121.	1.2	36
15	Automatic Identification of Wet and Dry Cough in Pediatric Patients with Respiratory Diseases. Annals of Biomedical Engineering, 2013, 41, 1016-1028.	1.3	55
16	Cough Sound Analysis Can Rapidly Diagnose Childhood Pneumonia. Annals of Biomedical Engineering, 2013, 41, 2448-2462.	1.3	87
17	ARMA-based spectral bandwidth for evaluation of bowel motility by the analysis of bowel sounds. Physiological Measurement, 2013, 34, 925-936.	1.2	11
18	Impact of gender on snore-based obstructive sleep apnea screening. Physiological Measurement, 2012, 33, 587-601.	1.2	11

#	Article	IF	Citations
19	Gender dependant snore sound based multi feature obstructive sleep apnea screening method. , 2012, 2012, 6353-6.		3
20	Artificial neural networks for breathing and snoring episode detection in sleep sounds. Physiological Measurement, 2012, 33, 1675-1689.	1.2	20
21	A method to screen obstructive sleep apnea using multi-variable non-intrusive measurements. Physiological Measurement, 2011, 32, 445-465.	1.2	17
22	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
23	Objective measure of sleepiness and sleep latency via bispectrum analysis of EEG. Medical and Biological Engineering and Computing, 2010, 48, 1203-1213.	1.6	32
24	Nonlinear Features for Single-Channel Diagnosis of Sleep-Disordered Breathing Diseases. IEEE Transactions on Biomedical Engineering, 2010, 57, 1973-1981.	2.5	23
25	Interhemispheric Asynchrony Correlates With Severity of Respiratory Disturbance Index in Patients With Sleep Apnea. IEEE Transactions on Biomedical Engineering, 2010, 57, 2947-2955.	2.5	21
26	Gas and Optical Sensing Technology for the Field Assessment of Transformer Oil. International Journal of Emerging Electric Power Systems, 2010, 11, .	0.6	4
27	Investigation of Obstructive Sleep Apnea Using Nonlinear Mode Interactions in Nonstationary Snore Signals. Annals of Biomedical Engineering, 2009, 37, 1796-1806.	1.3	36
28	A state transition-based method for quantifying EEG sleep fragmentation. Medical and Biological Engineering and Computing, 2009, 47, 1053-1061.	1.6	22
29	Snore Signal Enhancement and Activity Detection via Translation-Invariant Wavelet Transform. IEEE Transactions on Biomedical Engineering, 2008, 55, 2332-2342.	2.5	30
30	Could formant frequencies of snore signals be an alternative means for the diagnosis of obstructive sleep apnea?. Sleep Medicine, 2008, 9, 894-898.	0.8	113
31	Silenceâ€“breathingâ€“snore classification from snore-related sounds. Physiological Measurement, 2008, 29, 227-243.	1.2	77
32	Inter-hemispheric asynchrony of the brain during events of apnoea and EEG arousals. Physiological Measurement, 2007, 28, 869-880.	1.2	11
33	Ultrasound scatter-spacing based diagnosis of focal diseases of the liver. Biomedical Signal Processing and Control, 2007, 2, 9-15.	3.5	11
34	Mixed-phase modeling in snore sound analysis. Medical and Biological Engineering and Computing, 2007, 45, 791-806.	1.6	45
35	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
36	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

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37	Pitch jump probability measures for the analysis of snoring sounds in apnea. Physiological Measurement, 2005, 26, 779-798.	1.2	118
38	EEG SOURCE LOCALIZATION: A COMPARATIVE STUDY OF CLASSICAL AND NEURAL NETWORK METHODS. International Journal of Neural Systems, 2001, 11, 349-359.	3.2	18
39	Wavelet transforms in estimating scatterer spacing from ultrasound echoes. Ultrasonics, 2000, 38, 688-692.	2.1	21
40	System reconstruction from higher order spectra slices. IEEE Transactions on Signal Processing, 1997, 45, 2241-2251.	3.2	9
41	On modeling the tissue response from ultrasonic B-scan images. IEEE Transactions on Medical Imaging, 1996, 15, 479-490.	5.4	60