Fernando Vaquerizo-Villar

List of Publications by Year
in descending order

33 papers	550 citations	686830 13 h-index	713013 21 g-index
33 all docs	33 docs citations	33 times ranked	372 citing authors

#	Article	IF	Citations
1	Heart rate variability as a potential biomarker of pediatric obstructive sleep apnea resolution. Sleep, 2022, 45, .	0.6	12
2	A 2D convolutional neural network to detect sleep apnea in children using airflow and oximetry. Computers in Biology and Medicine, 2022, 147, 105784.	3.9	13
3	Bispectral analysis of overnight airflow to improve the pediatric sleep apnea diagnosis. Computers in Biology and Medicine, 2021, 129, 104167.	3.9	16
4	Heart rate variability during wakefulness as a marker of obstructive sleep apnea severity. Sleep, 2021, 44, .	0.6	34
5	Wavelet Analysis of Overnight Airflow to Detect Obstructive Sleep Apnea in Children. Sensors, 2021, 21, 1491.	2.1	17
6	The Different Facets of Heart Rate Variability in Obstructive Sleep Apnea. Frontiers in Psychiatry, 2021, 12, 642333.	1.3	26
7	A Convolutional Neural Network Architecture to Enhance Oximetry Ability to Diagnose Pediatric Obstructive Sleep Apnea. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2906-2916.	3.9	37
8	Ensemble-learning regression to estimate sleep apnea severity using at-home oximetry in adults. Applied Soft Computing Journal, 2021, 111, 107827.	4.1	14
9	Usefulness of recurrence plots from airflow recordings to aid in paediatric sleep apnoea diagnosis. Computer Methods and Programs in Biomedicine, 2020, 183, 105083.	2.6	17
10	Automatic Assessment of Pediatric Sleep Apnea Severity Using Overnight Oximetry and Convolutional Neural Networks. , 2020, 2020, 633-636.		4
11	Assessment of Nocturnal Autonomic Cardiac Imbalance in Positional Obstructive Sleep Apnea. A Multiscale Nonlinear Approach. Entropy, 2020, 22, 1404.	1.1	4
12	A machine learning-based test for adult sleep apnoea screening at home using oximetry and airflow. Scientific Reports, 2020, 10, 5332.	1.6	46
13	EEG-Inception: A Novel Deep Convolutional Neural Network for Assistive ERP-Based Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2773-2782.	2.7	49
14	Pulse Rate Variability Analysis to Enhance Oximetry as at-Home Alternative for Sleep Apnea Diagnosing. IFMBE Proceedings, 2019, , 213-217.	0.2	1
15	Influence of Chronic Obstructive Pulmonary Disease and Moderate-To-Severe Sleep Apnoea in Overnight Cardiac Autonomic Modulation: Time, Frequency and Non-Linear Analyses. Entropy, 2019, 21, 381.	1.1	6
16	Usefulness of Spectral Analysis of Respiratory Rate Variability to Help in Pediatric Sleep Apnea-Hypopnea Syndrome Diagnosis. , 2019, 2019, 4580-4583.		3
17	Convolutional Neural Networks to Detect Pediatric Apnea-Hypopnea Events from Oximetry. , 2019, 2019, 3555-3558.		8
18	Utility of bispectrum in the screening of pediatric sleep apnea-hypopnea syndrome using oximetry recordings. Computer Methods and Programs in Biomedicine, 2018, 156, 141-149.	2.6	37

#	Article	IF	Citations
19	Wavelet analysis of oximetry recordings to assist in the automated detection of moderate-to-severe pediatric sleep apnea-hypopnea syndrome. PLoS ONE, 2018, 13, e0208502.	1.1	21
20	Improving the Diagnostic Ability of Oximetry Recordings in Pediatric Sleep Apnea-Hypopnea Syndrome by Means of Multi-Class AdaBoost. , 2018, 2018, 167-170.		5
21	Bispectral Analysis to Enhance Oximetry as a Simplified Alternative for Pediatric Sleep Apnea Diagnosis. , 2018, 2018, 175-178.		2
22	Detrended fluctuation analysis of the oximetry signal to assist in paediatric sleep apnoeaâ€“hypopnoea syndrome diagnosis. Physiological Measurement, 2018, 39, 114006.	1.2	22
23	Symbolic dynamics to enhance diagnostic ability of portable oximetry from the Phone Oximeter in the detection of paediatric sleep apnoea. Physiological Measurement, 2018, 39, 104002.	1.2	9
24	Usefulness of symbolic dynamics to characterize oximetric recordings from a smartphone in the detection of pediatric sleep apnea. , 2018, , .		0
25	Bispectral analysis of spontaneous EEG activity from patients with moderate dementia due to Alzheimer's disease. , 2017, 2017, 422-425.		5
26	Nocturnal Oximetryâ€“based Evaluation of Habitually Snoring Children. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 1591-1598.	2.5	95
27	Usefulness of discrete wavelet transform in the analysis of oximetry signals to assist in childhood sleep apnea-hypopnea syndrome diagnosis. , 2017, 2017, 3753-3756.		4
28	Multiscale Entropy Analysis of Unattended Oximetric Recordings to Assist in the Screening of Paediatric Sleep Apnoea at Home. Entropy, 2017, 19, 284.	1.1	21
29	Irregularity and Variability Analysis of Airflow Recordings to Facilitate the Diagnosis of Paediatric Sleep Apnoea-Hypopnoea Syndrome. Entropy, 2017, 19, 447.	1.1	10
30	A Bayesian neural network approach to compare the spectral information from nasal pressure and thermistor airflow in the automatic sleep apnea severity estimation. , 2017, 2017, 3741-3744.		1
31	Automated detection of childhood sleep apnea using discrete wavelet transform of nocturnal oximetry and anthropometric variables. , 2017, , .		0
32	Multi-class adaboost to detect Sleep Apnea-Hypopnea Syndrome severity from oximetry recordings obtained at home. , 2016, , .		4
33	Automated analysis of unattended portable oximetry by means of Bayesian neural networks to assist in the diagnosis of sleep apnea. , 2016, , .		7