## Gonzalo César Gutiérrez-Tobal

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reliability of machine learning to diagnose pediatric obstructive sleep apnea: Systematic review and metaâ€analysis. Pediatric Pulmonology, 2022, 57, 1931-1943.	1.0	22
2	Heart rate variability as a potential biomarker of pediatric obstructive sleep apnea resolution. Sleep, 2022, 45, .	0.6	12
3	Editorial: Unraveling Sleep and Its Disorders Using Novel Analytical Approaches. Frontiers in Neuroscience, 2022, 16, .	1.4	2
4	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
5	Heart rate variability spectrum characteristics in children with sleep apnea. Pediatric Research, 2021, 89, 1771-1779.	1.1	15
6	Bispectral analysis of overnight airflow to improve the pediatric sleep apnea diagnosis. Computers in Biology and Medicine, 2021, 129, 104167.	3.9	16
7	Wavelet Analysis of Overnight Airflow to Detect Obstructive Sleep Apnea in Children. Sensors, 2021, 21, 1491.	2.1	17
8	Spectral and temporal characterization of sleep spindles—methodological implications. Journal of Neural Engineering, 2021, 18, 036014.	1.8	4
9	Bispectral Analysis of Heart Rate Variability to Characterize and Help Diagnose Pediatric Sleep Apnea. Entropy, 2021, 23, 1016.	1.1	13
10	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
11	Ensemble-learning regression to estimate sleep apnea severity using at-home oximetry in adults. Applied Soft Computing Journal, 2021, 111, 107827.	4.1	14
12	Pediatric Sleep Apnea: The Overnight Electroencephalogram as a Phenotypic Biomarker. Frontiers in Neuroscience, 2021, 15, 644697.	1.4	9
13	Automatic Sleep Staging in Children with Sleep Apnea using Photoplethysmography and Convolutional Neural Networks. , 2021, 2021, 216-219.		3
14	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
15	Estudio de la adherencia al tratamiento con presión continua positiva en la vÃa aérea en pacientes con sÃndrome de apnea obstructiva del sueño en el confinamiento impuesto durante la pandemia de COVID-19. Archivos De Bronconeumologia, 2020, 56, 818-819.	0.4	12
16	Study of adherence to continuous positive airway pressure treatment in patients with obstructive sleep apnea syndrome in the confinement during the COVID-19 pandemic. Archivos De Bronconeumologia, 2020, 56, 818-819.	0.4	12
17	Intraindividual Characterization of the Sleep Spindle Variability in Healthy Subjects. , 2020, 2020, 3473-3476.		1
18	Automatic Assessment of Pediatric Sleep Apnea Severity Using Overnight Oximetry and Convolutional		4

Neural Networks. , 2020, 2020, 633-636.

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19	Assessment of Nocturnal Autonomic Cardiac Imbalance in Positional Obstructive Sleep Apnea. A Multiscale Nonlinear Approach. Entropy, 2020, 22, 1404.	1.1	4
20	A machine learning-based test for adult sleep apnoea screening at home using oximetry and airflow. Scientific Reports, 2020, 10, 5332.	1.6	46
21	Assessment of Airflow and Oximetry Signals to Detect Pediatric Sleep Apnea-Hypopnea Syndrome Using AdaBoost. Entropy, 2020, 22, 670.	1.1	22
22	Network Analysis on Overnight EEG Spectrum to Assess Relationships Between Paediatric Sleep Apnoea and Cognition. IFMBE Proceedings, 2020, , 1138-1146.	0.2	1
23	Pulse Rate Variability Analysis to Enhance Oximetry as at-Home Alternative for Sleep Apnea Diagnosing. IFMBE Proceedings, 2019, , 213-217.	0.2	1
24	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
25	Spectral EEG Differences in Children with Obstructive Sleep Apnea. , 2019, , .		1
26	Usefulness of Spectral Analysis of Respiratory Rate Variability to Help in Pediatric Sleep Apnea-Hypopnea Syndrome Diagnosis. , 2019, 2019, 4580-4583.		3
27	Convolutional Neural Networks to Detect Pediatric Apnea-Hypopnea Events from Oximetry. , 2019, 2019, 3555-3558.		8
28	Cloud algorithm-driven oximetry-based diagnosis of obstructive sleep apnoea in symptomatic habitually snoring children. European Respiratory Journal, 2019, 53, 1801788.	3.1	33
29	Evaluation of Machine-Learning Approaches to Estimate Sleep Apnea Severity From At-Home Oximetry Recordings. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 882-892.	3.9	48
30	A bagging-based automatic method to estimate apnea-hypopnea index from home-oximetry recordings. , 2019, , .		0
31	Design and assessment of an automated prediction model for 30-day re-hospitalization after a COPD exacerbation using genetic algorithms. , 2019, , .		0
32	Assessment of oximetry-based statistical classifiers as simplified screening tools in the management of childhood obstructive sleep apnea. Sleep and Breathing, 2018, 22, 1063-1073.	0.9	20
33	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
34	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
35	Improving the Diagnostic Ability of Oximetry Recordings in Pediatric Sleep Apnea-Hypopnea Syndrome by Means of Multi-Class AdaBoost. , 2018, 2018, 167-170.		5
36	Bispectral Analysis to Enhance Oximetry as a Simplified Alternative for Pediatric Sleep Apnea		2

Diagnosis. , 2018, 2018, 175-178.

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#	Article	IF	CITATIONS
37	Detrended fluctuation analysis of the oximetry signal to assist in paediatric sleep apnoea–hypopnoea syndrome diagnosis. Physiological Measurement, 2018, 39, 114006.	1.2	22
38	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
39	Automated Multiclass Classification of Spontaneous EEG Activity in Alzheimer's Disease and Mild Cognitive Impairment. Entropy, 2018, 20, 35.	1.1	75
40	Oximetry use in obstructive sleep apnea. Expert Review of Respiratory Medicine, 2018, 12, 665-681.	1.0	40
41	Usefulness of symbolic dynamics to characterize oximetric recordings from a smartphone in the detection of pediatric sleep apnea. , 2018, , .		0
42	Nocturnal Oximetry–based Evaluation of Habitually Snoring Children. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 1591-1598.	2.5	95
43	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
44	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
45	Irregularity and Variability Analysis of Airflow Recordings to Facilitate the Diagnosis of Paediatric Sleep Apnoea-Hypopnoea Syndrome. Entropy, 2017, 19, 447.	1.1	10
46	Assessment of automated analysis of portable oximetry as a screening test for moderate-to-severe sleep apnea in patients with chronic obstructive pulmonary disease. PLoS ONE, 2017, 12, e0188094.	1.1	23
47	Automated Screening of Children With Obstructive Sleep Apnea Using Nocturnal Oximetry: An Alternative to Respiratory Polygraphy in Unattended Settings. Journal of Clinical Sleep Medicine, 2017, 13, 693-702.	1.4	50
48	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
49	Automated detection of childhood sleep apnea using discrete wavelet transform of nocturnal oximetry and anthropometric variables. , 2017, , .		0
50	Multi-class adaboost to detect Sleep Apnea-Hypopnea Syndrome severity from oximetry recordings obtained at home. , 2016, , .		4
51	Automated analysis of unattended portable oximetry by means of Bayesian neural networks to assist in the diagnosis of sleep apnea. , 2016, , .		7
52	Regularity analysis of nocturnal oximetry recordings to assist in the diagnosis of sleep apnoea syndrome. Medical Engineering and Physics, 2016, 38, 216-224.	0.8	6
53	Utility of AdaBoost to Detect Sleep Apnea-Hypopnea Syndrome From Single-Channel Airflow. IEEE Transactions on Biomedical Engineering, 2016, 63, 636-646.	2.5	54
54	Assessment of an automated neural network based on unsupervised oximetry at home in the diagnosis of patients with moderate-to-severe SAHS and COPD. , 2016, , .		0

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#	Article	IF	CITATIONS
55	Automated analysis of overnight oximetry recordings by means of support vector machines to assist in the diagnosis of paediatric sleep apnoea. , 2016, , .		0
56	Diagnosis of pediatric obstructive sleep apnea: Preliminary findings using automatic analysis of airflow and oximetry recordings obtained at patients' home. Biomedical Signal Processing and Control, 2015, 18, 401-407.	3.5	30
57	Automated analysis of nocturnal oximetry as screening tool for childhood obstructive sleep apnea-hypopnea syndrome. , 2015, 2015, 2800-3.		4
58	Analysis and classification of oximetry recordings to predict obstructive sleep apnea severity in children. , 2015, 2015, 4540-3.		8
59	Assessment of Time and Frequency Domain Entropies to Detect Sleep Apnoea in Heart Rate Variability Recordings from Men and Women. Entropy, 2015, 17, 123-141.	1.1	36
60	Positive airway pressure and electrical stimulation methods for obstructive sleep apnea treatment: a patent review (2005 – 2014). Expert Opinion on Therapeutic Patents, 2015, 25, 971-989.	2.4	6
61	Statistical and nonlinear analysis of oximetry from respiratory polygraphy to assist in the diagnosis of Sleep Apnea in children. , 2014, 2014, 1860-3.		1
62	Exploring the spectral information of airflow recordings to help in pediatric Obstructive Sleep Apnea-Hypopnea Syndrome diagnosis. , 2014, 2014, 2298-301.		0
63	Applying Variable Ranking to Oximetric Recordings in Sleep Apnea Diagnosis. IFMBE Proceedings, 2014, , 969-972.	0.2	0
64	Classification Methods from Heart Rate Variability to Assist in SAHS Diagnosis. IFMBE Proceedings, 2014, , 1825-1828.	0.2	2
65	Pattern recognition in airflow recordings to assist in the sleep apnoea–hypopnoea syndrome diagnosis. Medical and Biological Engineering and Computing, 2013, 51, 1367-1380.	1.6	34
66	Assessment of spectral bands of interest in airflow signal to assist in sleep apnea-hypopnea syndrome diagnosis. , 2013, 2013, 5021-4.		0
67	Apnea-hypopnea index estimation from spectral analysis of airflow recordings. , 2012, 2012, 3444-7.		3
68	Linear and nonlinear analysis of airflow recordings to help in sleep apnoea–hypopnoea syndrome diagnosis. Physiological Measurement, 2012, 33, 1261-1275.	1.2	40