

# Antonio G Ravelo-Garca

## List of Publications by Citations

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**Version:** 2024-04-25

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51  
papers

515  
citations

13  
h-index

21  
g-index

63  
ext. papers

760  
ext. citations

3.8  
avg, IF

4.37  
L-index

#	Paper	IF	Citations
51	A Review of Obstructive Sleep Apnea Detection Approaches. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 825-837	7.2	66
50	Devices for home detection of obstructive sleep apnea: A review. <i>Sleep Medicine Reviews</i> , <b>2018</b> , 41, 149-160	6.2	49
49	A Systematic Review of Detecting Sleep Apnea Using Deep Learning. <i>Sensors</i> , <b>2019</b> , 19,	3.8	34
48	Oxygen Saturation and RR Intervals Feature Selection for Sleep Apnea Detection. <i>Entropy</i> , <b>2015</b> , 17, 2932-2957	2.8	31
47	Heart rate variability feature selection in the presence of sleep apnea: An expert system for the characterization and detection of the disorder. <i>Computers in Biology and Medicine</i> , <b>2017</b> , 91, 47-58	7	30
46	Application of the Permutation Entropy over the Heart Rate Variability for the Improvement of Electrocardiogram-based Sleep Breathing Pause Detection. <i>Entropy</i> , <b>2015</b> , 17, 914-927	2.8	28
45	A Review of Approaches for Sleep Quality Analysis. <i>IEEE Access</i> , <b>2019</b> , 7, 24527-24546	3.5	24
44	Detection of different voice diseases based on the nonlinear characterization of speech signals. <i>Expert Systems With Applications</i> , <b>2017</b> , 82, 184-195	7.8	22
43	Symbolic dynamics marker of heart rate variability combined with clinical variables enhance obstructive sleep apnea screening. <i>Chaos</i> , <b>2014</b> , 24, 024404	3.3	22
42	SpO2 based sleep apnea detection using deep learning <b>2017</b> ,		18
41	Velocity-based resistance training: impact of velocity loss in the set on neuromuscular performance and hormonal response. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2020</b> , 45, 817-828	3	15
40	An Oximetry Based Wireless Device for Sleep Apnea Detection. <i>Sensors</i> , <b>2020</b> , 20,	3.8	13
39	Multi-Objective Hyperparameter Optimization of Convolutional Neural Network for Obstructive Sleep Apnea Detection. <i>IEEE Access</i> , <b>2020</b> , 8, 129586-129599	3.5	13
38	Improving the understanding of sleep apnea characterization using Recurrence Quantification Analysis by defining overall acceptable values for the dimensionality of the system, the delay, and the distance threshold. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194462	3.7	12
37	A portable wireless device based on oximetry for sleep apnea detection. <i>Computing (Vienna/New York)</i> , <b>2018</b> , 100, 1203-1219	2.2	11
36	Sleep Quality Estimation by Cardiopulmonary Coupling Analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2018</b> , 26, 2233-2239	4.8	11
35	Optimization of sleep apnea detection using SpO2 and ANN <b>2017</b> ,		10

34	Automatic detection of cyclic alternating pattern. <i>Neural Computing and Applications</i> , <b>2018</b> , 1	4.8	8
33	Analog active filter design using a multi objective genetic algorithm. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 93, 83-94	2.8	8
32	On the use of patterns obtained from LSTM and feature-based methods for time series analysis: application in automatic classification of the CAP A phase subtypes. <i>Journal of Neural Engineering</i> , <b>2020</b> ,	5	7
31	Sleep apnea: Tracking effects of a first session of CPAP therapy by means of Granger causality. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 187, 105235	6.9	6
30	Comparison of SFS and mRMR for oximetry feature selection in obstructive sleep apnea detection. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 15711-15731	4.8	6
29	Human computer interactions in next-generation of aircraft smart navigation management systems: task analysis and architecture under an agent-oriented methodological approach. <i>Sensors</i> , <b>2015</b> , 15, 5228-50	3.8	5
28	Matrix of Lags: A tool for analysis of multiple dependent time series applied for CAP scoring. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 189, 105314	6.9	5
27	Greedy based convolutional neural network optimization for detecting apnea. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 197, 105640	6.9	5
26	Cyclic alternating pattern estimation based on a probabilistic model over an EEG signal. <i>Biomedical Signal Processing and Control</i> , <b>2020</b> , 62, 102063	4.9	5
25	A Portable Wireless Device for Cyclic Alternating Pattern Estimation from an EEG Monopolar Derivation. <i>Entropy</i> , <b>2019</b> , 21, 1203	2.8	5
24	Writer identification approach by holistic graphometric features using off-line handwritten words. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 15733-15746	4.8	5
23	Modeling a robust wind-speed forecasting to apply to wind-energy production. <i>Neural Computing and Applications</i> , <b>2019</b> , 31, 7891-7905	4.8	4
22	Sleep quality of subjects with and without sleep-disordered breathing based on the cyclic alternating pattern rate estimation from single-lead ECG. <i>Physiological Measurement</i> , <b>2019</b> , 40, 105009	2.9	3
21	Automatic Detection of a Phases for CAP Classification <b>2018</b> ,		3
20	Chagas disease vectors identification using visible and near-infrared spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2020</b> , 197, 103914	3.8	3
19	Improving the performance of the lip identification through the use of shape correction. <i>Applied Intelligence</i> , <b>2019</b> , 49, 1823-1840	4.9	3
18	Neural networks fusion for temperature forecasting. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 15699-15710	4.8	3
17	Combination of Deep and Shallow Networks for Cyclic Alternating Patterns Detection <b>2018</b> ,		3

16	On the Application of a Recurrent Neural Network for Rainfall Quantification Based on the Received Signal from Microwave Links. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 39-51	0.9	2
15	Temperature Control by Its Forecasting Applying Score Fusion for Sustainable Development. <i>Sustainability</i> , <b>2017</b> , 9, 193	3.6	2
14	Symmetry Extraction in High Sensitivity Melanoma Diagnosis. <i>Symmetry</i> , <b>2015</b> , 7, 1061-1079	2.7	2
13	A Method for Sleep Quality Analysis Based on CNN Ensemble With Implementation in a Portable Wireless Device. <i>IEEE Access</i> , <b>2020</b> , 8, 158523-158537	3.5	2
12	An Approach to Rain Detection Using Sobel Image Pre-processing and Convolutional Neuronal Networks. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 27-38	0.9	1
11	An Approach to the Improvement of Electrocardiogram-based Sleep Breathing Pauses Detection by means of Permutation Entropy of the Heart Rate Variability <b>2014</b> ,		1
10	A minimally invasive portable system for sleep apnea detection <b>2017</b> ,		1
9	Cepstrum Coefficients of the RR Series for the Detection of Obstructive Sleep Apnea Based on Different Classifiers. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 266-271	0.9	1
8	A method based on cardiopulmonary coupling analysis for sleep quality assessment with FPGA implementation. <i>Artificial Intelligence in Medicine</i> , <b>2021</b> , 112, 102019	7.4	1
7	Sleep Quality Analysis with Cardiopulmonary Coupling <b>2018</b> ,		1
6	Effects of replacing rye-grass ( <i>Lolium</i> spp.) hay by banana ( <i>Musa acuminata</i> L.) by-products on feed intake, growth, and feed conversion rate of Canary hair sheep breed (Pelibuey) lambs. <i>Tropical Animal Health and Production</i> , <b>2018</b> , 50, 1941-1945	1.7	1
5	Availability and performance of face based non-contact methods for heart rate and oxygen saturation estimations: A systematic review.. <i>Computer Methods and Programs in Biomedicine</i> , <b>2022</b> , 219, 106771	6.9	1
4	SC3: self-configuring classifier combination for obstructive sleep apnea. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 17825-17841	4.8	0
3	Study of Correlations between Clinical Signs and Morphological Features Identified in Dogs Affected with Inflammatory Bowel Disease. <i>Macedonian Veterinary Review</i> , <b>2020</b> , 43, 13-22	0.5	
2	Immunological and pathological investigations of non-specific reactive hepatitis in shelter dogs. <i>Acta Veterinaria</i> , <b>2019</b> , 69, 61-72	0.9	
1	Heuristic Optimization of Deep and Shallow Classifiers: An Application for Electroencephalogram Cyclic Alternating Pattern Detection. <i>Entropy</i> , <b>2022</b> , 24, 688	2.8	