

Eduardo Gil

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

1,170
citations

16
h-index

32
g-index

85
ext. papers

1,476
ext. citations

3.8
avg, IF

4.33
L-index

#	Paper	IF	Citations
70	Autonomic Nervous System characterization in hyperbaric environments considering respiratory component and non-linear analysis of Heart Rate Variability. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 214, 106527	6.9	0
69	Electrocardiogram Derived Respiratory Rate Using a Wearable Armband. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1056-1065	5	3
68	Photoplethysmographic Waveform Analysis for Autonomic Reactivity Assessment in Depression. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1273-1281	5	7
67	Detection and Classification of Sleep Apnea and Hypopnea Using PPG and SpO Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1496-1506	5	15
66	Photoplethysmographic Waveform and Pulse Rate Variability Analysis in Hyperbaric Environments. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1550-1560	7.2	2
65	Impact of the PPG sampling rate in the pulse rate variability indices evaluating several fiducial points in different pulse waveforms. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , PP,	7.2	2
64	Cardiopulmonary coupling indices to assess weaning readiness from mechanical ventilation. <i>Scientific Reports</i> , 2021 , 11, 16014	4.9	0
63	Asthmatic subjects stratification using autonomic nervous system information. <i>Biomedical Signal Processing and Control</i> , 2021 , 69, 102802	4.9	
62	The Added Value of Nonlinear Cardiorespiratory Coupling Indices in the Assessment of Depression. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 5473-5476	0.9	
61	A Comparative Study of ECG-derived Respiration in Ambulatory Monitoring using the Single-lead ECG. <i>Scientific Reports</i> , 2020 , 10, 5704	4.9	28
60	Noninvasive Cardiorespiratory Signals Analysis for Asthma Evolution Monitoring in Preschool Children. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 1863-1871	5	6
59	Electrocardiogram Derived Respiration for Tracking Changes in Tidal Volume from a Wearable Armband. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 596-599	0.9	1
58	Electrocardiogram-Derived Tidal Volume During Treadmill Stress Test. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 193-202	5	5
57	Finger and forehead PPG signal comparison for respiratory rate estimation. <i>Physiological Measurement</i> , 2019 , 40, 095007	2.9	11
56	Optimal fiducial points for pulse rate variability analysis from forehead and finger photoplethysmographic signals. <i>Physiological Measurement</i> , 2019 , 40, 025007	2.9	19
55	Autonomic Dysfunction Increases Cardiovascular Risk in the Presence of Sleep Apnea. <i>Frontiers in Physiology</i> , 2019 , 10, 620	4.6	5
54	Baroreflex Sensitivity Measured by Pulse Photoplethysmography. <i>Frontiers in Neuroscience</i> , 2019 , 13, 339	5.1	7

53	Measuring acute stress response through physiological signals: towards a quantitative assessment of stress. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 271-287	3.1	29
52	Assessment of Quadratic Nonlinear Cardiorespiratory Couplings During Tilt-Table Test by Means of Real Wavelet Biphase. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 187-198	5	5
51	Monitoring breathing rate by fusing the physiological impact of respiration on video-photoplethysmogram with head movements. <i>Physiological Measurement</i> , 2019 , 40, 094002	2.9	4
50	Multivariable relationships between autonomic nervous system related indices in hyperbaric environments. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 1500-1503	0.9	1
49	Photoplethysmographic Waveform in Hyperbaric Environment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 3490-3493	0.9	1
48	Effect of yoga on pulse rate variability measured from a venous pressure waveform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 372-375	0.9	2
47	Unconstrained Estimation of HRV Indices After Removing Respiratory Influences From Heart Rate. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 2386-2397	7.2	15
46	Photoplethysmographic Waveform Versus Heart Rate Variability to Identify Low-Stress States: Attention Test. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 1940-1951	7.2	7
45	Autonomic Nervous System Measurement in Hyperbaric Environments Using ECG and PPG Signals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 132-142	7.2	19
44	Nocturnal Heart Rate Variability Spectrum Characterization in Preschool Children With Asthmatic Symptoms. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 1332-1340	7.2	13
43	Nonlinear Dynamics of Heart Rate Variability in Children with Asthmatic Symptoms. <i>IFMBE Proceedings</i> , 2018 , 815-818	0.2	1
42	Detection of ventricular premature beats based on the pressure signals of a hemodialysis machine. <i>Medical Engineering and Physics</i> , 2018 , 51, 49-55	2.4	5
41	Validity of Venous Waveform Signal for Heart Rate Variability Monitoring 2018 ,		1
40	Pilot Study on Electrocardiogram Derived Respiratory Rate Using a Wearable Armband 2018 ,		7
39	Respiratory Rate Derived from Pulse Photoplethysmographic Signal by Pulse Decomposition Analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 5282-5285	0.9	3
38	On the Influence of Heart Rate and Coupling Interval Prematurity on Heart Rate Turbulence. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 302-309	5	1
37	A Two Step Gaussian Modelling to Assess PPG Morphological Variability Induced by Psychological Stress 2017 ,		2
36	Robust Pulse Rate Variability Analysis from Reflection and Transmission Photoplethysmographic Signals 2017 ,		5

35	Pulse Rate and Transit Time Analysis to Predict Hypotension Events After Spinal Anesthesia During Programmed Cesarean Labor. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 2253-2263	4.7	13
34	Separating the effect of respiration on the heart rate variability using Granger's causality and linear filtering. <i>Biomedical Signal Processing and Control</i> , 2017 , 31, 272-287	4.9	15
33	Relative peripheral blood volume changes induced by premature ectopic beats and their role in hemodialysis. <i>Biomedical Signal Processing and Control</i> , 2017 , 31, 524-528	4.9	
32	Respiratory Rate Detection Using a Camera as Contactless Sensor 2017 ,		3
31	Inspiration and Expiration Dynamics in Acute Emotional Stress Assessment 2017 ,		1
30	Pulse Photoplethysmography Derived Respiration for Obstructive Sleep Apnea Detection 2017 ,		1
29	Finger and forehead PPG signal comparison for respiratory rate estimation based on pulse amplitude variability 2017 ,		7
28	Inclusion of Respiratory Frequency Information in Heart Rate Variability Analysis for Stress Assessment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 1016-25	7.2	76
27	2015 ,		2
26	Respiratory rate derived from smartphone-camera-acquired pulse photoplethysmographic signals. <i>Physiological Measurement</i> , 2015 , 36, 2317-33	2.9	18
25	Electrocardiogram derived respiratory rate from QRS slopes and R-wave angle. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 2072-83	4.7	39
24	Smartphone-camera-acquired pulse photoplethysmographic signal for deriving respiratory rate 2014 ,		4
23	Pulse rate variability analysis for discrimination of sleep-apnea-related decreases in the amplitude fluctuations of pulse photoplethysmographic signal in children. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 240-6	7.2	79
22			
21	Deriving respiration from photoplethysmographic pulse width. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 233-42	3.1	87
20	Signal Processing Guided by Physiology: Making the Most of Cardiorespiratory Signals [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2013 , 30, 136-142	9.4	2
19	Heart rate turbulence analysis based on photoplethysmography. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 3149-55	5	36
18	Electrocardiogram derived respiration from QRS slopes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3913-6	0.9	5

17	Cross time-frequency analysis for combining information of several sources: application to estimation of spontaneous respiratory rate from photoplethysmography. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 631978	2.8	9
16	Noninvasive techniques for prevention of intradialytic hypotension. <i>IEEE Reviews in Biomedical Engineering</i> , 2012 , 5, 45-59	6.4	21
15	Selection of Nonstationary Dynamic Features for Obstructive Sleep Apnoea Detection in Children. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	11
14	Sleep apnoea detection in children using PPG envelope-based dynamic features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 1483-6	0.9	0
13	Time-varying spectral analysis for comparison of HRV and PPG variability during tilt table test. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3579-82	0.9	8
12	Photoplethysmography pulse rate variability as a surrogate measurement of heart rate variability during non-stationary conditions. <i>Physiological Measurement</i> , 2010 , 31, 1271-90	2.9	281
11	Dynamic assessment of spontaneous baroreflex sensitivity by means of time-frequency analysis using either RR or pulse interval variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 1630-3	0.9	8
10	PTT variability for discrimination of sleep apnea related decreases in the amplitude fluctuations of PPG signal in children. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1079-88	5	56
9	Discrimination of sleep-apnea-related decreases in the amplitude fluctuations of PPG signal in children by HRV analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1005-14	5	43
8	Detection of obstructive sleep apnea in children using decreases in the amplitude fluctuations of PPG signal and HRV. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 2470-3	0.9	1
7	Detection of decreases in the amplitude fluctuation of pulse photoplethysmography signal as indication of obstructive sleep apnea syndrome in children. <i>Biomedical Signal Processing and Control</i> , 2008 , 3, 267-277	4.9	63
6	On arousal from sleep: time-frequency analysis. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 341-51	3.1	27
5	Obstructive sleep apnea syndrome analysis in children by decreases in the amplitude fluctuations of pulse photoplethysmography: role of recording duration and heart rate variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6090-3		3
4	Study of the relationship between pulse photoplethysmography amplitude decrease events and sleep apneas in children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 3887-90		3
3	Pulse photoplethysmography amplitude decrease detector for sleep apnea evaluation in children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 2743-6		7
2	Difference in Pulse Arrival Time at Forehead and at Finger as a Surrogate of Pulse Transit Time		2
1	Heart Rate Variability Analysis Guided by Respiration in Major Depressive Disorder		3