

Hugo Plcido da Silva

List of Publications by Citations

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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

823
citations

15
h-index

27
g-index

84
ext. papers

1,148
ext. citations

2.6
avg, IF

4.48
L-index

#	Paper	IF	Citations
70	Unveiling the biometric potential of finger-based ECG signals. <i>Computational Intelligence and Neuroscience</i> , 2011 , 2011, 1-8	3	150
69	Check your biosignals here: a new dataset for off-the-person ECG biometrics. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 113, 503-14	6.9	58
68	Novel fiducial and non-fiducial approaches to electrocardiogram-based biometric systems. <i>IET Biometrics</i> , 2013 , 2, 64-75	2.9	47
67	Biosignals for Everyone. <i>IEEE Pervasive Computing</i> , 2014 , 13, 64-71	1.3	46
66	. <i>IEEE Access</i> , 2019 , 7, 140990-141020	3.5	45
65	2013 ,		43
64	Benchmarking of the BITalino biomedical toolkit against an established gold standard. <i>Healthcare Technology Letters</i> , 2019 , 6, 32-36	1.9	34
63	Off-the-person electrocardiography: performance assessment and clinical correlation. <i>Health and Technology</i> , 2015 , 4, 309-318	2.1	31
62	2011 ,		27
61	A Web-based Application to Address Individual Interests of Children with Autism Spectrum Disorders. <i>Procedia Computer Science</i> , 2012 , 14, 20-27	1.6	23
60	2011 ,		22
59	Outlier Detection in Non-intrusive ECG Biometric System. <i>Lecture Notes in Computer Science</i> , 2013 , 43-52.	0.9	21
58	BIT: Biosignal Igniter Toolkit. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 115, 20-32	6.9	18
57	In-vehicle driver recognition based on hand ECG signals 2012 ,		18
56	A Context-Aware Application to Increase Elderly Users Compliance with Physical Rehabilitation Exercises at Home via Animatronic Biofeedback. <i>Journal of Medical Systems</i> , 2015 , 39, 135	5.1	15
55	Performance Comparison of Low-cost Hardware Platforms Targeting Physiological Computing Applications. <i>Procedia Technology</i> , 2014 , 17, 399-406		14
54	ECG-based biometrics: A real time classification approach 2012 ,		14

53	Emotion Assessment Using Feature Fusion and Decision Fusion Classification Based on Physiological Data: Are We There Yet?. <i>Sensors</i> , 2020 , 20,	3.8	12
52	Wheelchair Pressure Ulcer Prevention Using FBG Based Sensing Devices. <i>Sensors</i> , 2019 , 20,	3.8	11
51	ECG Biometrics Using Deep Learning and Relative Score Threshold Classification. <i>Sensors</i> , 2020 , 20,	3.8	11
50	Feature Subspace Ensembles: A Parallel Classifier Combination Scheme Using Feature Selection 2007 , 261-270		10
49	Experimental characterization and analysis of the BITalino platforms against a reference device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 2418-2421	0.9	9
48	Developments in Transduction, Connectivity and AI/Machine Learning for Point-of-Care Testing. <i>Sensors</i> , 2019 , 19,	3.8	9
47	Introduction to the Special Issue on Physiological Computing for Human-Computer Interaction. <i>ACM Transactions on Computer-Human Interaction</i> , 2015 , 21, 1-4	4.7	8
46	Clinical Data Privacy and Customization via Biometrics Based on ECG Signals. <i>Lecture Notes in Computer Science</i> , 2011 , 121-132	0.9	8
45	A web-based platform for biosignal visualization and annotation. <i>Multimedia Tools and Applications</i> , 2014 , 70, 433-460	2.5	7
44	HiMotion: a new research resource for the study of behavior, cognition, and emotion. <i>Multimedia Tools and Applications</i> , 2014 , 73, 345-375	2.5	7
43	e-CoVig: A Novel mHealth System for Remote Monitoring of Symptoms in COVID-19. <i>Sensors</i> , 2021 , 21,	3.8	7
42	A simple pendulum studied with a low-cost wireless acquisition board. <i>Physics Education</i> , 2019 , 54, 0150158		7
41	User needs in the performance of prescribed home exercise therapy 2012 ,		6
40	Physiological Sensing Now Open to the World: New Resources Are Allowing Us to Learn, Experiment, and Create Imaginative Solutions for Biomedical Applications. <i>IEEE Pulse</i> , 2018 , 9, 9-11	0.7	5
39	Accelerometry-based study of body vibration dampening during whole-body vibration training 2011 ,		5
38	Biosignal-Based Multimodal Emotion Recognition in a Valence-Arousal Affective Framework Applied to Immersive Video Visualization. <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, 3577-3583	0.9	5
37	Design and Evaluation of a Diaphragm for Electrocardiography in Electronic Stethoscopes. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 391-398	5	5
36	Design and evaluation of a novel approach to invisible electrocardiography (ECG) in sanitary facilities using polymeric electrodes. <i>Scientific Reports</i> , 2021 , 11, 6222	4.9	5

35	Design and development of a digital stethoscope encapsulation for simultaneous acquisition of phonocardiography and electrocardiography signals: the SmartHeart case study. <i>Journal of Medical Engineering and Technology</i> , 2020 , 44, 153-161	1.8	4
34	User-tuned Content Customization for Children with Autism Spectrum Disorders. <i>Procedia Computer Science</i> , 2014 , 27, 441-448	1.6	4
33	A Unifying Approach to ECG Biometric Recognition Using the Wavelet Transform. <i>Lecture Notes in Computer Science</i> , 2013 , 53-62	0.9	4
32	Feature extraction for psychophysiological load assessment in unconstrained scenarios. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 4784-7	0.9	4
31	Invisible ECG for High Throughput Screening in eSports. <i>Sensors</i> , 2021 , 21,	3.8	4
30	Evaluating Template Uniqueness in ECG Biometrics. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 111-123.	0.2	3
29	Unsupervised Analysis of Morphological ECG Features for Attention Detection. <i>Studies in Computational Intelligence</i> , 2016 , 437-453	0.8	3
28	Harnessing the Power of Biosignals. <i>Computer</i> , 2014 , 47, 74-77	1.6	3
27	Choosing Between Terminal and Independently Based Gain and Offset Error in the ADC Histogram Test. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 9-16	5.2	3
26	Electrodermal response propagation time as a potential psychophysiological marker. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6756-9	0.9	3
25	SwimBIT: A Novel Approach to Stroke Analysis During Swim Training Based on Attitude and Heading Reference System (AHRS). <i>Sports</i> , 2019 , 7,	3	3
24	Electromyography in Front Crawl Technique - Case Study~!2009-07-05~!2009-11-01~!2010-04-29~!. <i>The Open Sports Sciences Journal</i> , 2010 , 3, 67-69	0.5	2
23	The Biosignal C.A.O.S.: Reflections on the Usability of Physiological Sensing for Human-Computer Interaction Practitioners and Researchers. <i>Biosystems and Biorobotics</i> , 2017 , 807-811	0.2	2
22	Towards Improving the Usability of Electromyographic Interfaces. <i>Biosystems and Biorobotics</i> , 2013 , 437-441	0.4	2
21	Design and Evaluation of an Electrodermal Activity Sensor (EDA) With Adaptive Gain. <i>IEEE Sensors Journal</i> , 2021 , 21, 8639-8649	4	2
20	Optically Instrumented Insole for Gait Plantar and Shear Force Monitoring. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
19	2014 ,		1
18	Stress reactivity, distress and attachment in newly diagnosed breast cancer patients. <i>Health Psychology and Behavioral Medicine</i> , 2015 , 3, 424-438	2.2	1

17	Alexithymia, Physiological Reactivity and Cognitive Appraisals of Emotional Stimuli in Opiate Dependents: A Pilot Study.. <i>Journal of Neurology & Neurophysiology</i> , 2014 , 06,	0.5	1
16	System on Chip (SoC) for Invisible Electrocardiography (ECG) Biometrics.. <i>Sensors</i> , 2022 , 22,	3.8	1
15	Mobile Applications for Epilepsy: Where Are We? Where Should We Go? A Systematic Review. <i>Signals</i> , 2022 , 3, 40-65	1.2	1
14	Bioinspired optical fiber sensor for simultaneous shear and vertical forces monitoring 2019 ,		1
13	Comparison of Different Polymeric Materials for Mobile Off-the-Person ECG. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 15-22	0.6	1
12	Study of Mechanomyographic Alternatives to EMG Sensors for a Low-Cost Open Source Bionic Hand. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 3-14	0.6	1
11	Paper-Based Inkjet Electrodes. <i>Lecture Notes in Computer Science</i> , 2014 , 59-70	0.9	1
10	Morphological autoencoders for apnea detection in respiratory gating radiotherapy. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 195, 105675	6.9	1
9	A dissimilarity-based approach to automatic classification of biosignal modalities. <i>Applied Soft Computing Journal</i> , 2022 , 115, 108203	7.5	0
8	EmotiphAI: a biocybernetic engine for real-time biosignals acquisition in a collective setting. <i>Neural Computing and Applications</i> ,1	4.8	0
7	Impact of sampling rate and interpolation on photoplethysmography and electrodermal activity signals waveform morphology and feature extraction. <i>Neural Computing and Applications</i> ,1	4.8	0
6	Identity Recognition in Sanitary Facilities Using Invisible Electrocardiography. <i>Sensors</i> , 2022 , 22, 4201	3.8	0
5	Automatic Cognitive Fatigue Detection Using Wearable fNIRS and Machine Learning. <i>Sensors</i> , 2022 , 22, 4010	3.8	0
4	Applications and Issues for Physiological Computing Systems: An Introduction to the Special Issue. <i>Interacting With Computers</i> , 2015 , 27, 489-491	1.6	
3	A novel platform for distributed and remote real-time monitoring of animal model behavior in a bioterium. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3728-3731	0.9	
2	Heart Rhythm Qualitative Analysis Using Low-Cost and Open Source Electrocardiography: A Study Based on Atrial Fibrillation Detection. <i>Lecture Notes in Computer Science</i> , 2019 , 198-217	0.9	
1	Equivalent Pipeline Processing for IR-UWB and FMCW Radar Comparison in Vital Signs Monitoring Applications. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	