

# Hugo Plcido da Silva

## List of Publications by Year in Descending Order

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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	System on Chip (SoC) for Invisible Electrocardiography (ECG) Biometrics.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	1
69	Mobile Applications for Epilepsy: Where Are We? Where Should We Go? A Systematic Review. <i>Signals</i> , <b>2022</b> , 3, 40-65	1.2	1
68	A dissimilarity-based approach to automatic classification of biosignal modalities. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 115, 108203	7.5	0
67	Equivalent Pipeline Processing for IR-UWB and FMCW Radar Comparison in Vital Signs Monitoring Applications. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1	4	
66	Identity Recognition in Sanitary Facilities Using Invisible Electrocardiography. <i>Sensors</i> , <b>2022</b> , 22, 4201	3.8	0
65	Automatic Cognitive Fatigue Detection Using Wearable fNIRS and Machine Learning. <i>Sensors</i> , <b>2022</b> , 22, 4010	3.8	0
64	Invisible ECG for High Throughput Screening in eSports. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
63	Design and Evaluation of an Electrodermal Activity Sensor (EDA) With Adaptive Gain. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 8639-8649	4	2
62	e-CoVig: A Novel mHealth System for Remote Monitoring of Symptoms in COVID-19. <i>Sensors</i> , <b>2021</b> , 21,	3.8	7
61	Optically Instrumented Insole for Gait Plantar and Shear Force Monitoring. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	2
60	Design and evaluation of a novel approach to invisible electrocardiography (ECG) in sanitary facilities using polymeric electrodes. <i>Scientific Reports</i> , <b>2021</b> , 11, 6222	4.9	5
59	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> , <b>2020</b> , 44, 153-161	1.8	4
58	Comparison of Different Polymeric Materials for Mobile Off-the-Person ECG. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 15-22	0.6	1
57	Study of Mechanomyographic Alternatives to EMG Sensors for a Low-Cost Open Source Bionic Hand. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 3-14	0.6	1
56	ECG Biometrics Using Deep Learning and Relative Score Threshold Classification. <i>Sensors</i> , <b>2020</b> , 20,	3.8	11
55	Morphological autoencoders for apnea detection in respiratory gating radiotherapy. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 195, 105675	6.9	1
54	Emotion Assessment Using Feature Fusion and Decision Fusion Classification Based on Physiological Data: Are We There Yet?. <i>Sensors</i> , <b>2020</b> , 20,	3.8	12

53	Design and Evaluation of a Diaphragm for Electrocardiography in Electronic Stethoscopes. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 391-398	5	5
52	Developments in Transduction, Connectivity and AI/Machine Learning for Point-of-Care Testing. <i>Sensors</i> , <b>2019</b> , 19,	3.8	9
51	Benchmarking of the BITalino biomedical toolkit against an established gold standard. <i>Healthcare Technology Letters</i> , <b>2019</b> , 6, 32-36	1.9	34
50	. <i>IEEE Access</i> , <b>2019</b> , 7, 140990-141020	3.5	45
49	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> , <b>2019</b> , 198-217	0.9	
48	Bioinspired optical fiber sensor for simultaneous shear and vertical forces monitoring <b>2019</b> ,		1
47	Wheelchair Pressure Ulcer Prevention Using FBG Based Sensing Devices. <i>Sensors</i> , <b>2019</b> , 20,	3.8	11
46	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> , <b>2019</b> , 2019, 3577-3583	0.9	5
45	SwimBIT: A Novel Approach to Stroke Analysis During Swim Training Based on Attitude and Heading Reference System (AHRS). <i>Sports</i> , <b>2019</b> , 7,	3	3
44	A simple pendulum studied with a low-cost wireless acquisition board. <i>Physics Education</i> , <b>2019</b> , 54, 0150158		7
43	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> , <b>2018</b> , 9, 9-11	0.7	5
42	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> , <b>2017</b> , 2017, 2418-2421	0.9	9
41	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> , <b>2017</b> , 2017, 3728-3731	0.9	
40	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> , <b>2017</b> , 807-811	0.2	2
39	Evaluating Template Uniqueness in ECG Biometrics. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 111-123.	0.2	3
38	Unsupervised Analysis of Morphological ECG Features for Attention Detection. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 437-453	0.8	3
37	Off-the-person electrocardiography: performance assessment and clinical correlation. <i>Health and Technology</i> , <b>2015</b> , 4, 309-318	2.1	31
36	Applications and Issues for Physiological Computing Systems: An Introduction to the Special Issue. <i>Interacting With Computers</i> , <b>2015</b> , 27, 489-491	1.6	

35	A Context-Aware Application to Increase Elderly Users Compliance with Physical Rehabilitation Exercises at Home via Animatronic Biofeedback. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 135	5.1	15
34	Stress reactivity, distress and attachment in newly diagnosed breast cancer patients. <i>Health Psychology and Behavioral Medicine</i> , <b>2015</b> , 3, 424-438	2.2	1
33	Introduction to the Special Issue on Physiological Computing for Human-Computer Interaction. <i>ACM Transactions on Computer-Human Interaction</i> , <b>2015</b> , 21, 1-4	4.7	8
32	BIT: Biosignal Igniter Toolkit. <i>Computer Methods and Programs in Biomedicine</i> , <b>2014</b> , 115, 20-32	6.9	18
31	<b>2014</b> ,		1
30	Harnessing the Power of Biosignals. <i>Computer</i> , <b>2014</b> , 47, 74-77	1.6	3
29	Check your biosignals here: a new dataset for off-the-person ECG biometrics. <i>Computer Methods and Programs in Biomedicine</i> , <b>2014</b> , 113, 503-14	6.9	58
28	User-tuned Content Customization for Children with Autism Spectrum Disorders. <i>Procedia Computer Science</i> , <b>2014</b> , 27, 441-448	1.6	4
27	A web-based platform for biosignal visualization and annotation. <i>Multimedia Tools and Applications</i> , <b>2014</b> , 70, 433-460	2.5	7
26	Alexithymia, Physiological Reactivity and Cognitive Appraisals of Emotional Stimuli in Opiate Dependents: A Pilot Study.. <i>Journal of Neurology &amp; Neurophysiology</i> , <b>2014</b> , 06,	0.5	1
25	Performance Comparison of Low-cost Hardware Platforms Targeting Physiological Computing Applications. <i>Procedia Technology</i> , <b>2014</b> , 17, 399-406		14
24	Biosignals for Everyone. <i>IEEE Pervasive Computing</i> , <b>2014</b> , 13, 64-71	1.3	46
23	HiMotion: a new research resource for the study of behavior, cognition, and emotion. <i>Multimedia Tools and Applications</i> , <b>2014</b> , 73, 345-375	2.5	7
22	Paper-Based Inkjet Electrodes. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 59-70	0.9	1
21	Novel fiducial and non-fiducial approaches to electrocardiogram-based biometric systems. <i>IET Biometrics</i> , <b>2013</b> , 2, 64-75	2.9	47
20	A Unifying Approach to ECG Biometric Recognition Using the Wavelet Transform. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 53-62	0.9	4
19	<b>2013</b> ,		43
18	Outlier Detection in Non-intrusive ECG Biometric System. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 43-52	0.9	21

17	Towards Improving the Usability of Electromyographic Interfaces. <i>Biosystems and Biorobotics</i> , <b>2013</b> , 437-441	2
16	Choosing Between Terminal and Independently Based Gain and Offset Error in the ADC Histogram Test. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2012</b> , 61, 9-16	5.2 3
15	ECG-based biometrics: A real time classification approach <b>2012</b> ,	14
14	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> , <b>2012</b> , 2012, 6756-9	0.9 3
13	In-vehicle driver recognition based on hand ECG signals <b>2012</b> ,	18
12	A Web-based Application to Address Individual Interests of Children with Autism Spectrum Disorders. <i>Procedia Computer Science</i> , <b>2012</b> , 14, 20-27	1.6 23
11	User needs in the performance of prescribed home exercise therapy <b>2012</b> ,	6
10	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> , <b>2012</b> , 2012, 4784-7	0.9 4
9	<b>2011</b> ,	22
8	Unveiling the biometric potential of finger-based ECG signals. <i>Computational Intelligence and Neuroscience</i> , <b>2011</b> , 2011, 1-8	3 150
7	Accelerometry-based study of body vibration dampening during whole-body vibration training <b>2011</b> ,	5
6	<b>2011</b> ,	27
5	Clinical Data Privacy and Customization via Biometrics Based on ECG Signals. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 121-132	0.9 8
4	Electromyography in Front Crawl Technique - Case Study~!2009-07-05~!2009-11-01~!2010-04-29~!. <i>The Open Sports Sciences Journal</i> , <b>2010</b> , 3, 67-69	0.5 2
3	Feature Subspace Ensembles: A Parallel Classifier Combination Scheme Using Feature Selection <b>2007</b> , 261-270	10
2	EmotiphAI: a biocybernetic engine for real-time biosignals acquisition in a collective setting. <i>Neural Computing and Applications</i> ,1	4.8 0
1	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