

# Jorge Henriques

## List of Publications by Citations

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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.

75  
papers

565  
citations

14  
h-index

20  
g-index

93  
ext. papers

701  
ext. citations

1.5  
avg, IF

3.33  
L-index

#	Paper	IF	Citations
75	Noise detection during heart sound recording using periodicity signatures. <i>Physiological Measurement</i> , <b>2011</b> , 32, 599-618	2.9	40
74	Assessment of cardiovascular function from multi-Gaussian fitting of a finger photoplethysmogram. <i>Physiological Measurement</i> , <b>2015</b> , 36, 1801-25	2.9	39
73	Detection of motion artifact patterns in photoplethysmographic signals based on time and period domain analysis. <i>Physiological Measurement</i> , <b>2014</b> , 35, 2369-88	2.9	36
72	Prediction of acute hypotensive episodes by means of neural network multi-models. <i>Computers in Biology and Medicine</i> , <b>2011</b> , 41, 881-90	7	30
71	Supervision and c-Means clustering of PID controllers for a solar power plant. <i>International Journal of Approximate Reasoning</i> , <b>1999</b> , 22, 73-91	3.6	28
70	Beat-to-beat systolic time-interval measurement from heart sounds and ECG. <i>Physiological Measurement</i> , <b>2012</b> , 33, 177-94	2.9	25
69	Comparison of systolic time interval measurement modalities for portable devices. <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>2010</b> , 2010, 606-9	0.9	22
68	Detection of wheezes using their signature in the spectrogram space and musical 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> , <b>2015</b> , 2015, 5581-4	0.9	20
67	Heart murmur classification with feature selection. <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>2010</b> , 2010, 4566-9	0.9	20
66	Detection of motion artifacts in photoplethysmographic signals based on time and period domain 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> , <b>2012</b> , 2012, 2603-6	0.9	19
65	Affine Neural Network-Based Predictive Control Applied to a Distributed Solar Collector Field. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 585-596	4.8	18
64	WELCOME Innovative integrated care platform using wearable sensing and smart cloud computing for COPD patients with comorbidities. <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>2014</b> , 2014, 3180-3	0.9	18
63	Third heart sound detection using wavelet transform-simplicity filter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 1277-81		17
62	Long term cardiovascular risk models combination. <i>Computer Methods and Programs in Biomedicine</i> , <b>2011</b> , 101, 231-42	6.9	14
61	Detection of crackle events using a multi-feature approach. <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>2016</b> , 2016, 3679-3683	0.9	14
60	Assessing PEP and LVET from heart sounds: algorithms and evaluation. <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>2009</b> , 2009, 3129-33	0.9	12
59	Model-Based Atrial Fibrillation Detection <b>2012</b> , 99-133		10

58	A Sensor Middleware for integration of heterogeneous medical devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010</i> , 2010, 5189-92	0.9	10
57	Cardiac status assessment with a multi-signal device for improved home-based congestive heart failure management. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,</i>	0.9	10
56	Multi-Gaussian fitting for the assessment of left ventricular ejection time from the photoplethysmogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012</i> , 2012, 3951-4	0.9	9
55	Adaptive neural output regulation control of a solar power plant. <i>Control Engineering Practice, 2010</i> , 18, 1183-1196	3.9	9
54	Wavelet based time series forecast with application to acute hypotensive episodes prediction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010</i> , 2010, 2403-6	0.9	8
53	Assessing systolic time-intervals from heart sound: a feasibility study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009</i> , 2009, 3124-8	0.9	8
52	BCIAUT-P300: A Multi-Session and Multi-Subject Benchmark Dataset on Autism for P300-Based Brain-Computer-Interfaces. <i>Frontiers in Neuroscience, 2020</i> , 14, 568104	5.1	8
51	On affine state-space neural networks for system identification: Global stability conditions and complexity management. <i>Control Engineering Practice, 2013</i> , 21, 518-529	3.9	7
50	The CardioRisk project: Improvement of cardiovascular risk assessment. <i>Journal of Computational Science, 2015</i> , 9, 39-44	3.4	6
49	Robust features for detection of crackles: an exploratory study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 1473-6	0.9	6
48	Noise detection during heart sound recording. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009</i> , 2009, 3119-23	0.9	6
47	CHOOSING REAL-TIME PREDICTORS FOR VENTRICULAR ARRHYTHMIA DETECTION. <i>International Journal of Pattern Recognition and Artificial Intelligence, 2007</i> , 21, 1249-1263	1.1	6
46	Premature ventricular beat detection by using spectral clustering methods <b>2007</b> ,		5
45	Iterative Multidimensional Scaling for Industrial Process Monitoring <b>2006</b> ,		5
44	Biomedical signals and machine learning in amyotrophic lateral sclerosis: a systematic review. <i>BioMedical Engineering OnLine, 2021</i> , 20, 61	4.1	5
43	A low-complex multi-channel methodology for noise detection in phonocardiogram signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015</i> , 2015, 5936-9	0.9	4
42	Voluntary cough detection by internal sound analysis <b>2014</b> ,		4
41	Characterization of surrogate parameters for blood pressure regulation in neurally-mediated syncope. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013</i> , 2013, 5381-5	0.9	4

40	Systems and Control for Biomedical Engineering Students. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 413-417		4
39	Adaptive neural model-based predictive control with steady state offset compensation for a distributed solar collector field <b>2003</b> ,		4
38	Reset-Driven Fault Tolerance. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 102-120	0.9	4
37	New approaches for improving cardiovascular risk assessment. <i>Revista Portuguesa De Cardiologia</i> , <b>2016</b> , 35, 5-13	1	3
36	Assessment of cardiovascular risk based on a data-driven knowledge discovery approach. <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>2015</b> , 2015, 6800-3	0.9	3
35	Automatic Parameter Extraction from Capacitive ECG Measurements. <i>Cardiovascular Engineering and Technology</i> , <b>2012</b> , 3, 319-332	2.2	3
34	Beat-to-beat cardiac output inference using heart sounds. <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>2011</b> , 2011, 5657-61	0.9	3
33	On State-Space Neural Networks for Systems Identification: Stability and Complexity <b>2006</b> ,		3
32	Constrained neural model predictive control with guaranteed free offset		3
31	Heart rate variability analysis for the identification of the preictal interval in patients with drug-resistant epilepsy. <i>Scientific Reports</i> , <b>2021</b> , 11, 5987	4.9	3
30	Personalization Based on Grouping Strategies for Short-Term Cardiovascular Event Risk Assessment. <i>Cardiovascular Engineering and Technology</i> , <b>2015</b> , 6, 392-9	2.2	2
29	Correlation between autonomous function and left ventricular performance after acute myocardial infarction. <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>2015</b> , 2015, 3343-6	0.9	2
28	An automatic method for motion artifacts detection in photoplethysmographic signals referenced with electrocardiography data <b>2014</b> ,		2
27	Telehealth streams reduction based on pattern recognition techniques for events detection and efficient storage in EHR. <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>2015</b> , 2015, 7400-4	0.9	2
26	Ischemia detection in the context of a cardiovascular status assessment tool. <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>2009</b> , 2009, 2535-8	0.9	2
25	Long term cardiovascular risk modelsYcombination - a new approach. <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>2009</b> , 2009, 4711-4	0.9	2
24	Fusion of risk assessment models with application to coronary artery disease patients. <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>2011</b> , 2011, 872-5	0.9	2
23	Modulation filtering for noise detection in heart sound signals. <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>2011</b> , 2011, 6013-6	0.9	2

22	A Tool For ECG Analysis as a Module of a Tele-Monitoring System. <i>International Journal of Online Engineering</i> , <b>2016</b> , 12, 64		2
21	Biodata analytics for COPD <b>2016</b> ,		2
20	Knowledge and Data Driven Approaches Applied to Clinical Assessment. <i>IFMBE Proceedings</i> , <b>2018</b> , 133-136		1
19	Trend prediction methodology based on time series similarity analysis and haar wavelet decomposition <b>2013</b> ,		1
18	Trend Analysis of Telemonitoring for the Prediction of Heart Failure Decompensation Events. <i>IFMBE Proceedings</i> , <b>2015</b> , 674-677	0.2	1
17	A wavelet-based approach for time series pattern detection and events prediction applied to telemonitoring data. <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>2011</b> , 2011, 6037-40	0.9	1
16	Order estimation in affine state-space neural networks		1
15	A Multi-feature Approach for Noise Detection in Lung Sounds. <i>IFMBE Proceedings</i> , <b>2019</b> , 211-216	0.2	1
14	Improving clinical models based on knowledge extracted from current datasets: a new approach. <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>2016</b> , 2016, 2295-2298	0.9	1
13	Detection of arrhythmic events by means of trend prediction of physiological time series in pHealth systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 8415-8420		0
12	An interpretable data-driven approach for rules construction: Application to cardiovascular risk assessment. <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, 2646-2649	0.9	0
11	Multi-channel audio-based estimation of the Pre-Ejection Period. <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>2015</b> , 2015, 5932-5	0.9	0
10	Data Report: "Health care of Persons Deprived of Liberty" Course From Brazil's Unified Health System Virtual Learning Environment. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 742071	4.9	0
9	Expert knowledge integration in the data mining process with application to cardiovascular risk assessment. <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>2015</b> , 2015, 2538-42	0.9	
8	Personalization algorithms applied to cardiovascular disease risk assessment. <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>2014</b> , 2014, 2726-9	0.9	
7	ECG Compression through segment matching and progressive error encoding. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 135-8		
6	Models for risk assessment and stratification <b>2022</b> , 119-150		
5	Remote management of heart failure patients: A p-health example <b>2022</b> , 263-278		

4	Complexity Analysis of a Biosignal Time Series Similarity Indexing Approach. <i>IFMBE Proceedings, 2021, 262-269</i>	0.2
3	Identification of Clinically Relevant Rules: An Interpretable Approach for CVD Risk Assessment. <i>IFMBE Proceedings, 2021, 644-654</i>	0.2
2	Multi-parametric prediction for cardiovascular risk assessment. <i>Studies in Health Technology and Informatics, 2016, 224, 15-20</i>	0.5
1	A Deep Learning Approach for Data-Driven Predictive Maintenance of Rolling Bearings. <i>Lecture Notes in Electrical Engineering, 2022, 587-598</i>	0.2