Jorge Henriques

List of Publications by Year
in descending order

88 papers	838 citations	758635 12 h-index	713013 21 g-index
93 all docs	93 docs citations	93 times ranked	881 citing authors

#	Article	IF	Citations
1	Assessment of cardiovascular function from multi-Gaussian fitting of a finger photoplethysmogram. Physiological Measurement, 2015, 36, 1801-1825.	1.2	52
2	Noise detection during heart sound recording using periodicity signatures. Physiological Measurement, 2011, 32, 599-618.	1.2	51
3	Detection of motion artifact patterns in photoplethysmographic signals based on time and period domain analysis. Physiological Measurement, 2014, 35, 2369-2388.	1.2	50
4	Prediction of acute hypotensive episodes by means of neural network multi-models. Computers in Biology and Medicine, 2011, 41, 881-890.	3.9	39
5	Beat-to-beat systolic time-interval measurement from heart sounds and ECG. Physiological Measurement, 2012, 33, 177-194.	1.2	34
6	Heart murmur classification with feature selection. , 2010, 2010, 4566-9.		32
7	BCIAUT-P300: A Multi-Session and Multi-Subject Benchmark Dataset on Autism for P300-Based Brain-Computer-Interfaces. Frontiers in Neuroscience, 2020, 14, 568104.	1.4	32
8	Comparison of systolic time interval measurement modalities for portable devices. , 2010, 2010, 606-9.		31
9	Detection of wheezes using their signature in the spectrogram space and musical features. , 2015, 2015, 5581-4.		31
10	Supervision and c-Means clustering of PID controllers for a solar power plant. International Journal of Approximate Reasoning, 1999, 22, 73-91.	1.9	29
11	Detection of motion artifacts in photoplethysmographic signals based on time and period domain analysis. , 2012, 2012, 2603-6.		27
12	Affine Neural Network-Based Predictive Control Applied to a Distributed Solar Collector Field. IEEE Transactions on Control Systems Technology, 2014, 22, 585-596.	3.2	25
13	Biomedical signals and machine learning in amyotrophic lateral sclerosis: a systematic review. BioMedical Engineering OnLine, 2021, 20, 61.	1.3	24
14	Third Heart Sound Detection Using Wavelet Transform-Simplicity Filter. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1277-81.	0.5	23
15	WELCOME — Innovative integrated care platform using wearable sensing and smart cloud computing for COPD patients with Comorbidities. , 2014, 2014, 3180-3.		21
16	Detection of crackle events using a multi-feature approach. , 2016, 2016, 3679-3683.		21
17	Assessing PEP and LVET from heart sounds: Algorithms and evaluation. , 2009, 2009, 3129-33.		20
18	Heart rate variability analysis for the identification of the preictal interval in patients with drug-resistant epilepsy. Scientific Reports, 2021, 11, 5987.	1.6	20

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19	Long term cardiovascular risk models' combination. Computer Methods and Programs in Biomedicine, 2011, 101, 231-242.	2.6	18
20	Wavelet based time series forecast with application to acute hypotensive episodes prediction. , 2010, 2010, 2403-6.		15
21	Multi-Gaussian fitting for the assessment of left ventricular ejection time from the Photoplethysmogram. , 2012, 2012, 3951-4.		14
22	Assessing Systolic Time-Intervals from Heart Sound: A Feasibility Study. , 2009, 2009, 3124-8.		13
23	Noise detection during heart sound recording. , 2009, 2009, 3119-23.		13
24	Adaptive neural output regulation control of a solar power plant. Control Engineering Practice, 2010, 18, 1183-1196.	3.2	12
25	A Sensor Middleware for integration of heterogeneous medical devices. , 2010, 2010, 5189-92.		12
26	Cardiac status assessment with a multi-signal device for improved home-based congestive heart failure management. , 2011, 2011, 876-9.		12
27	Model-Based Atrial Fibrillation Detection. , 2012, , 99-133.		10
28	CHOOSING REAL-TIME PREDICTORS FOR VENTRICULAR ARRHYTHMIA DETECTION. International Journal of Pattern Recognition and Artificial Intelligence, 2007, 21, 1249-1263.	0.7	9
29	On affine state-space neural networks for system identification: Global stability conditions and complexity management. Control Engineering Practice, 2013, 21, 518-529.	3.2	9
30	Iterative Multidimensional Scaling for Industrial Process Monitoring. , 2006, , .		7
31	Robust features for detection of crackles: An exploratory study. , 2014, 2014, 1473-6.		7
32	Assessment of cardiovascular risk based on a data-driven knowledge discovery approach. , 2015, 2015, 6800-3.		7
33	The CardioRisk project: Improvement of cardiovascular risk assessment. Journal of Computational Science, 2015, 9, 39-44.	1.5	7
34	On State-Space Neural Networks for Systems Identification: Stability and Complexity. , 2006, , .		6
35	Adaptive neural model-based predictive control with steady state offset compensation for a distributed solar collector field. , 2003, , .		5
36	Premature ventricular beat detection by using spectral clustering methods. , 2007, , .		5

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37	Characterization of surrogate parameters for blood pressure regulation in neurally-mediated syncope. , 2013, 2013, 5381-5.		5
38	Voluntary cough detection by internal sound analysis. , 2014, , .		5
39	A low-complex multi-channel methodology for noise detection in phonocardiogram signals. , 2015, 2015, 5936-9.		5
40	New approaches for improving cardiovascular risk assessment. Revista Portuguesa De Cardiologia, 2016, 35, 5-13.	0.2	5
41	Data Report: â€œHealth care of Persons Deprived of Libertyâ€•Course From Brazil's Unified Health System Virtual Learning Environment. Frontiers in Medicine, 2021, 8, 742071.	1.2	5
42	Reset-Driven Fault Tolerance. Lecture Notes in Computer Science, 2002, , 102-120.	1.0	5
43	Systems and Control for Biomedical Engineering Students. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 413-417.	0.4	4
44	Constrained neural model predictive control with guaranteed free offset. , 0, , .		3
45	Beat-to-beat cardiac output inference using heart sounds. , 2011, 2011, 5657-61.		3
46	Automatic Parameter Extraction from Capacitive ECG Measurements. Cardiovascular Engineering and Technology, 2012, 3, 319-332.	0.7	3
47	Trend prediction methodology based on time series similarity analysis and haar wavelet decomposition. , 2013, , .		3
48	Telehealth streams reduction based on pattern recognition techniques for events detection and efficient storage in EHR. , 2013, 2013, 7488-91.		3
49	Personalization Based on Grouping Strategies for Short-Term Cardiovascular Event Risk Assessment. Cardiovascular Engineering and Technology, 2015, 6, 392-399.	0.7	3
50	Correlation between autonomous function and left ventricular performance after acute myocardial infarction. , 2015, 2015, 3343-6.		3
51	A Tool For ECG Analysis as a Module of a Tele-Monitoring System. International Journal of Online Engineering, 2016, 12, 64.	0.5	3
52	Ischemia detection in the context of a cardiovascular status assessment tool. , 2009, 2009, 2535-8.		2
53	Long term cardiovascular risk models’ combination - a new approach. , 2009, 2009, 4711-4.		2
54	Fusion of risk assessment models with application to coronary artery disease patients. , 2011, 2011, 872-5.		2

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55	A wavelet-based approach for time series pattern detection and events prediction applied to telemonitoring data. , 2011, 2011, 6037-40.		2
56	Modulation filtering for noise detection in heart sound signals. , 2011, 2011, 6013-6.		2
57	An automatic method for motion artifacts detection in photoplethysmographic signals referenced with electrocardiography data. , 2014, , .		2
58	Multi-channel audio-based estimation of the Pre-Ejection Period. , 2015, 2015, 5932-5.		2
59	Biodata analytics for COPD. , 2016, , .		2
60	An interpretable data-driven approach for rules construction: Application to cardiovascular risk assessment. , 2017, 2017, 2646-2649.		2
61	A recurrent neuronal approach for the nonlinear discrete time output regulation. , 0, , .		1
62	Order estimation in affine state-space neural networks. , 0, , .		1
63	ECG Compression through segment matching and progressive error encoding. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 135-8.	0.5	1
64	A 24/7 monitorization tool for avoiding hypotensive episodes in critical care. , 2010, , .		1
65	Assessing the similarity between time series using a Wavelet transform: Application and interpretability aspects. , 2014, , .		1
66	Detection of arrhythmic events by means of trend prediction of physiological time series in pHealth systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8415-8420.	0.4	1
67	Improving clinical models based on knowledge extracted from current datasets: A new approach. , 2016, 2016, 2295-2298.		1
68	Comparison of an interpretable data-driven approach with state of the art classifiers: Application to cardiovascular risk assessment. , 2017, , .		1
69	Multiparametric prediction with application to early detection of cardiovascular events. , 2017, , .		1
70	A Multi-feature Approach for Noise Detection in Lung Sounds. IFMBE Proceedings, 2019, , 211-216.	0.2	1
71	A Deep Learning Approach for Data-Driven Predictive Maintenance of Rolling Bearings. Lecture Notes in Electrical Engineering, 2022, , 587-598.	0.3	1
72	Atrial Activity Detection through a Sparse Decomposition Technique. , 2008, , .		0

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73	The HTP tool: Monitoring, detecting and predicting hypotensive episodes in critical care. , 2011, , .		0
74	Simulation software applied to short term cardiovascular disease risk assessment. , 2013, , .		0
75	Matlab tool applied to the trend prediction of physiological time series. , 2013, , .		0
76	Matlab tool for cardiovascular disease risk prediction. , 2013, , .		0
77	Personalization algorithms applied to cardiovascular disease risk assessment. , 2014, 2014, 2726-9.		0
78	A tool for ECG analysis as a module of a tele-monitoring system. , 2015, , .		0
79	Expert knowledge integration in the data mining process with application to cardiovascular risk assessment. , 2015, 2015, 2538-42.		0
80	Identification of CVD risk parameters during sleep. , 2016, , .		0
81	Validation of a similarity measurement method for clustering cardiac signals. , 2017, , .		0
82	On the viability of ECG features for seizure anticipation on long-term data. , 2017, , .		0
83	Pattern Detection in Vital Signals Daily Collected by Means of a Tele-monitoring Application. IFMBE Proceedings, 2014, , 191-196.	0.2	0
84	Complexity Analysis of a Biosignal Time Series Similarity Indexing Approach. IFMBE Proceedings, 2021, , 262-269.	0.2	0
85	Identification of Clinically Relevant Rules: An Interpretable Approach for CVD Risk Assessment. IFMBE Proceedings, 2021, , 644-654.	0.2	0
86	Models for risk assessment and stratification. , 2022, , 119-150.		0
87	Remote management of heart failure patients: A p-health example. , 2022, , 263-278.		0
88	Multi-parametric prediction for cardiovascular risk assessment. Studies in Health Technology and Informatics, 2016, 224, 15-20.	0.2	0