MarÃa J Lado

List of Publications by Year
in descending order

45 papers	798 citations	566801 15 h-index	500791 28 g-index
47 all docs	47 docs citations	47 times ranked	853 citing authors

#	Article	IF	Citations
1	VARSE: Android app for real-time acquisition and analysis of heart rate signals. International Journal of Medical Informatics, 2022, 160, 104692.	1.6	0
2	Learning memory management with Câ€Sim: A Câ€based visual tool. Computer Applications in Engineering Education, 2019, 27, 1217-1235.	2.2	3
3	Evidence Based Recommendations for Designing Heart Rate Variability Studies. Journal of Medical Systems, 2019, 43, 311.	2.2	9
4	A Background Modeling and Foreground Detection Algorithm Using Scaling Coefficients Defined With a Color Model Called Lightness-Red-Green-Blue. IEEE Transactions on Image Processing, 2018, 27, 1243-1258.	6.0	18
5	Influence of visual elicitation on emotion regulation: An investigation employing heart rate variability. Journal of Integrative Neuroscience, 2018, 16, 209-226.	0.8	1
6	PhysioDataBase: Free online repository for heart rate variability studies. , 2018, , .		1
7	An evaluation tool for wave delineation in ECG processing: Wxw. , 2018, , .		0
8	Diagnosing Psychopathy through Emotional Regulation Tasks: Heart Rate Variability versus Implicit Association Test. Psychopathology, 2017, 50, 334-341.	1.1	12
9	A channel-dependent algorithm for heart beats detection in ECG recordings. , 2017, , .		2
10	Combining 12-Lead ECG Information for a Beat Detection Algorithm. Journal on Advances in Theoretical and Applied Informatics, 2017, 3, 5.	0.2	8
11	The perception of the Hymn of Ecuador through measuring heart rate variability (HRV). , 2016, , .		0
12	gVARVI: A graphical software tool for the acquisition of the heart rate in response to external stimuli. Computer Methods and Programs in Biomedicine, 2016, 132, 197-205.	2.6	5
13	Detection of premature ventricular contractions using the RR-interval signal: A simple algorithm for mobile devices. Technology and Health Care, 2014, 22, 651-656.	0.5	9
14	Heart rate variability in patients with severe chronic obstructive pulmonary disease in a home care program. Technology and Health Care, 2014, 22, 91-98.	0.5	16
15	Visual Waveletâ€Lab: An objectâ€oriented library and a GUI application for the study of the wavelet transform. Computer Applications in Engineering Education, 2014, 22, 23-32.	2.2	2
16	gHRV: Heart rate variability analysis made easy. Computer Methods and Programs in Biomedicine, 2014, 116, 26-38.	2.6	37
17	Two-Layer Wrapping for COTS Software Integration: An Experience with Matlab. IEEE Software, 2012, 29, 76-82.	2.1	0
18	Nocturnal evolution of heart rate variability indices in sleep apnea. Computers in Biology and Medicine, 2012, 42, 1179-1185.	3.9	28

#	Article	IF	Citations
19	An open source tool for heart rate variability spectral analysis. Computer Methods and Programs in Biomedicine, 2011, 103, 39-50.	2.6	60
20	Detecting Sleep Apnea by Heart Rate Variability Analysis: Assessing the Validity of Databases and Algorithms. Journal of Medical Systems, 2011, 35, 473-481.	2.2	50
21	Comparative study of ROC regression techniquesâ€"Applications for the computer-aided diagnostic system in breast cancer detection. Computational Statistics and Data Analysis, 2011, 55, 888-902.	0.7	23
22	An R package for heart rate variability analysis. , 2009, , .		3
23	Selecting variables in nonâ€parametric regression models for binary response. An application to the computerized detection of breast cancer. Statistics in Medicine, 2009, 28, 240-259.	0.8	4
24	Application of the iris filter for automatic detection of pulmonary nodules on computed tomography images. Computers in Biology and Medicine, 2009, 39, 921-933.	3.9	61
25	Image compression: Maxshift ROI encoding options in JPEG2000. Computer Vision and Image Understanding, 2008, 109, 139-145.	3.0	50
26	Assessing continuous bivariate effects among different groups through nonparametric regression models: An application to breast cancer detection. Computational Statistics and Data Analysis, 2008, 52, 1958-1970.	0.7	6
27	Nonparametric estimation of conditional ROC curves: Application to discrimination tasks in computerized detection of early breast cancer. Computational Statistics and Data Analysis, 2008, 52, 2623-2631.	0.7	16
28	Categorical variables, interactions and generalized additive models. Applications in computer-aided diagnosis systems. Computers in Biology and Medicine, 2008, 38, 475-483.	3.9	7
29	A component framework for reusing a proprietary computer-aided engineering environment. Advances in Engineering Software, 2007, 38, 256-266.	1.8	17
30	Integrating Matlab Neural Networks Toolbox functionality in a fully reusable software component library. Neural Computing and Applications, 2007, 16, 471-479.	3.2	4
31	IMO.Net Artificial Neural Networks: an object-oriented reusable software component library to integrate Matlab Neural Networks functionality. , 2006, , .		1
32	Using Generalized Additive Models for Construction of Nonlinear Classifiers in Computer-Aided Diagnosis Systems. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 246-253.	3.6	10
33	Effects of JPEG2000 Data Compression on an Automated System for Detecting Clustered Microcalcifications in Digital Mammograms. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 354-361.	3.6	13
34	R-Interface: An alternative GUI for MATLAB. Computer Applications in Engineering Education, 2006, 14, 313-320.	2.2	6
35	Encapsulating an engineering calculus environment in a reusable component framework. , 2006, , .		0
36	Lung Segmentation on Postero-anterior Digital Chest Radiographs Using Active Contours. Lecture Notes in Computer Science, 2004, , 538-546.	1.0	4

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37	Evaluation of an automated wavelet-based system dedicated to the detection of clustered microcalcifications in digital mammograms. Informatics for Health and Social Care, 2001, 26, 149-163.	1.0	16
38	Improvement of a Mammographic CAD System for Mass Detection. Lecture Notes in Computer Science, 2001, , 181-185.	1.0	2
39	Computer-Aided Diagnosis: Application of Wavelet Transform to the Detection of Clustered Microcalcifications in Digital Mammograms. Lecture Notes in Computer Science, 2001, , 140-145.	1.0	1
40	A wavelet-based algorithm for detecting clustered microcalcifications in digital mammograms. Medical Physics, 1999, 26, 1294-1305.	1.6	42
41	Computer-aided diagnosis: Automatic detection of malignant masses in digitized mammograms. Medical Physics, 1998, 25, 957-964.	1.6	113
42	Real and simulated clustered microcalcifications in digital mammograms. ROC study of observer performance. Medical Physics, 1997, 24, 1385-1394.	1.6	17
43	Automatic detection of breast border and nipple in digital mammograms. Computer Methods and Programs in Biomedicine, 1996, 49, 253-262.	2.6	109
44	A limited PACS dedicated to a research environment. Nine years' experience in Santiago de Compostela. Medical Informatics = Medecine Et Informatique, 1996, 21, 123-132.	0.8	7
45	Computer-aided diagnosis. , 1996, , 465-468.		0