

Juan F. Guerrero

List of Publications by Year in descending order

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39
papers

732
citations

516710

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552781

26
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45
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45
docs citations

45
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
1	Alteration of Ventricular Fibrillation by Flecainide, Verapamil, and Sotalol. <i>Circulation</i> , 2000, 101, 1606-1615.	1.6	76
2	Simplified spiking neural network architecture and STDP learning algorithm applied to image classification. <i>Eurasip Journal on Image and Video Processing</i> , 2015, 2015, .	2.6	69
3	Foetal ECG recovery using dynamic neural networks. <i>Artificial Intelligence in Medicine</i> , 2004, 31, 197-209.	6.5	56
4	FPGA Implementation of an Adaptive Filter Robust to Impulsive Noise: Two Approaches. <i>IEEE Transactions on Industrial Electronics</i> , 2011, 58, 860-870.	7.9	53
5	Application of adaptive signal processing for determining the limits of P and T waves in an ECG. <i>IEEE Transactions on Biomedical Engineering</i> , 1998, 45, 1077-1080.	4.2	45
6	Hardware implementation of real-time Extreme Learning Machine in FPGA: Analysis of precision, resource occupation and performance. <i>Computers and Electrical Engineering</i> , 2016, 51, 139-156.	4.8	42
7	Modification of Ventricular Fibrillation Activation Patterns Induced by Local Stretching. <i>Journal of Cardiovascular Electrophysiology</i> , 2005, 16, 1087-1096.	1.7	38
8	Effects of acute reduction of temperature on ventricular fibrillation activation patterns. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H2331-H2340.	3.2	31
9	Causal relationships between neurons of the nucleus incertus and the hippocampal theta activity in the rat. <i>Journal of Physiology</i> , 2017, 595, 1775-1792.	2.9	28
10	Theta synchronization between the hippocampus and the nucleus incertus in urethane-anesthetized rats. <i>Experimental Brain Research</i> , 2011, 211, 177-192.	1.5	27
11	An easy demonstration of the optimum value of the adaptation constant in the LMS algorithm [FIR filter theory]. <i>IEEE Transactions on Education</i> , 1998, 41, 81.	2.4	24
12	Opposite Effects of Myocardial Stretch and Verapamil on the Complexity of the Ventricular Fibrillatory Pattern: An Experimental Study. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2000, 23, 1594-1603.	1.2	22
13	Quantification of the Modifications in the Dominant Frequency of Ventricular Fibrillation under Conditions of Ischemia and Reperfusion: An Experimental Study. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1998, 21, 1716-1723.	1.2	21
14	Modifications in the evolution of the dominant frequency in ventricular fibrillation induced by amiodarone, diltiazem, and flecainide. <i>Journal of Electrocardiology</i> , 1996, 29, 319-326.	0.9	20
15	BioLab: An Educational Tool for Signal Processing Training in Biomedical Engineering. <i>IEEE Transactions on Education</i> , 2007, 50, 34-40.	2.4	17
16	Less Data Same Information for Event-Based Sensors: A Bioinspired Filtering and Data Reduction Algorithm. <i>Sensors</i> , 2018, 18, 4122.	3.8	16
17	Moving Learning Machine towards Fast Real-Time Applications: A High-Speed FPGA-Based Implementation of the OS-ELM Training Algorithm. <i>Electronics (Switzerland)</i> , 2018, 7, 308.	3.1	16
18	Detection of Ventricular Fibrillation Using the Image from Time-Frequency Representation and Combined Classifiers without Feature Extraction. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2057.	2.5	16

#	ARTICLE	IF	CITATIONS
19	Optimization of the KNN Supervised Classification Algorithm as a Support Tool for the Implantation of Deep Brain Stimulators in Patients with Parkinson's Disease. <i>Entropy</i> , 2019, 21, 346.	2.2	11
20	Support Tool for the Combined Software/Hardware Design of On-Chip ELM Training for SLFF Neural Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 1114-1123.	11.3	10
21	Application of machine learning techniques to analyse the effects of physical exercise in ventricular fibrillation. <i>Computers in Biology and Medicine</i> , 2014, 45, 1-7.	7.0	6
22	High performance hardware correlation coefficient assessment using programmable logic for ECG signals. <i>Microprocessors and Microsystems</i> , 2003, 27, 33-39.	2.8	5
23	The training-induced changes on automatism, conduction and myocardial refractoriness are not mediated by parasympathetic postganglionic neurons activity. <i>European Journal of Applied Physiology</i> , 2012, 112, 2185-2193.	2.5	5
24	NEMESIS: a new telemedicine approach to cardiologic software. , 0, , .		4
25	Real-Time Localization of Epileptogenic Foci EEG Signals: An FPGA-Based Implementation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 827.	2.5	4
26	Modificaciones de la fibrilaci3n ventricular y de la capacidad de captura inducidas por una lesi3n lineal con radiofrecuencia. <i>Revista Espanola De Cardiologia</i> , 2012, 65, 143-151.	1.2	3
27	MATLAB-based educational software for exploratory data analysis (EDA toolkit). <i>Computer Applications in Engineering Education</i> , 2012, 20, 313-320.	3.4	3
28	Modifications in Ventricular Fibrillation and Capture Capacity Induced by a Linear Radiofrequency Lesion. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2012, 65, 143-151.	0.6	2
29	Analysis of ventricular fibrillation signals using feature selection methods. , 2012, , .		2
30	Evaluation of the Complexity of Myocardial Activation During Ventricular Fibrillation. An Experimental Study. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2013, 66, 177-184.	0.6	2
31	A Survey of Bayesian Techniques in Computer Vision. , 2010, , 482-498.		2
32	Analysis of heart rate variability in diabetic patients affected by autonomic cardiovascular neuropathy. , 0, , .		1
33	Changes in the Spectral Characteristics of Ventricular Fibrillation in Lesions Produced by Radiofrequency Ablation. An Experimental Study. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2008, 61, 394-403.	0.6	1
34	P and R Wave Detection in Complete Congenital Atrioventricular Block. <i>Annals of Biomedical Engineering</i> , 2009, 37, 94-106.	2.5	1
35	Spectral coherence of ventricular fibrillation under conditions of coronary perfusion, dilatation and drug administration. , 0, , .		0
36	A Review of Kernel Methods in ECG Signal Classification. , 2012, , 195-217.		0

#	ARTICLE	IF	CITATIONS
37	Effect of chronic exercise on myocardial electrophysiological heterogeneity and stability. Role of intrinsic cholinergic neurons: A study in the isolated rabbit heart. PLoS ONE, 2018, 13, e0209085.	2.5	0
38	Application of Neural Networks in Animal Science. , 2010, , 440-456.		0
39	Application of Machine Learning Techniques in the Study of the Relevance of Environmental Factors in Prediction of Tropospheric Ozone. , 2010, , 278-292.		0