

# Juan F. Guerrero

## List of Publications by Year in descending order

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39  
papers

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citations

516710

16  
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552781

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g-index

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all docs

45  
docs citations

45  
times ranked

795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Localization of Epileptogenic Foci EEG Signals: An FPGA-Based Implementation. Applied Sciences (Switzerland), 2020, 10, 827.	2.5	4
2	Optimization of the KNN Supervised Classification Algorithm as a Support Tool for the Implantation of Deep Brain Stimulators in Patients with Parkinson's Disease. Entropy, 2019, 21, 346.	2.2	11
3	Less Data Same Information for Event-Based Sensors: A Bioinspired Filtering and Data Reduction Algorithm. Sensors, 2018, 18, 4122.	3.8	16
4	Moving Learning Machine towards Fast Real-Time Applications: A High-Speed FPGA-Based Implementation of the OS-ELM Training Algorithm. Electronics (Switzerland), 2018, 7, 308.	3.1	16
5	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
6	Detection of Ventricular Fibrillation Using the Image from Time-Frequency Representation and Combined Classifiers without Feature Extraction. Applied Sciences (Switzerland), 2018, 8, 2057.	2.5	16
7	Causal relationships between neurons of the nucleus incertus and the hippocampal theta activity in the rat. Journal of Physiology, 2017, 595, 1775-1792.	2.9	28
8	Support Tool for the Combined Software/Hardware Design of On-Chip ELM Training for SLFF Neural Networks. IEEE Transactions on Industrial Informatics, 2016, 12, 1114-1123.	11.3	10
9	Hardware implementation of real-time Extreme Learning Machine in FPGA: Analysis of precision, resource occupation and performance. Computers and Electrical Engineering, 2016, 51, 139-156.	4.8	42
10	Simplified spiking neural network architecture and STDP learning algorithm applied to image classification. Eurasip Journal on Image and Video Processing, 2015, 2015, .	2.6	69
11	Application of machine learning techniques to analyse the effects of physical exercise in ventricular fibrillation. Computers in Biology and Medicine, 2014, 45, 1-7.	7.0	6
12	Evaluation of the Complexity of Myocardial Activation During Ventricular Fibrillation. An Experimental Study. Revista Espanola De Cardiologia (English Ed ), 2013, 66, 177-184.	0.6	2
13	Modifications in Ventricular Fibrillation and Capture Capacity Induced by a Linear Radiofrequency Lesion. Revista Espanola De Cardiologia (English Ed ), 2012, 65, 143-151.	0.6	2
14	Modificaciones de la fibrilaci3n ventricular y de la capacidad de captura inducidas por una lesi3n lineal con radiofrecuencia. Revista Espanola De Cardiologia, 2012, 65, 143-151.	1.2	3
15	A Review of Kernel Methods in ECG Signal Classification. , 2012, , 195-217.		0
16	Analysis of ventricular fibrillation signals using feature selection methods. , 2012, , .		2
17	The training-induced changes on automatism, conduction and myocardial refractoriness are not mediated by parasympathetic postganglionic neurons activity. European Journal of Applied Physiology, 2012, 112, 2185-2193.	2.5	5
18	MATLAB-based educational software for exploratory data analysis (EDA toolkit). Computer Applications in Engineering Education, 2012, 20, 313-320.	3.4	3

#	ARTICLE	IF	CITATIONS
19	FPGA Implementation of an Adaptive Filter Robust to Impulsive Noise: Two Approaches. IEEE Transactions on Industrial Electronics, 2011, 58, 860-870.	7.9	53
20	Theta synchronization between the hippocampus and the nucleus incertus in urethane-anesthetized rats. Experimental Brain Research, 2011, 211, 177-192.	1.5	27
21	A Survey of Bayesian Techniques in Computer Vision. , 2010, , 482-498.		2
22	Application of Neural Networks in Animal Science. , 2010, , 440-456.		0
23	Application of Machine Learning Techniques in the Study of the Relevance of Environmental Factors in Prediction of Tropospheric Ozone. , 2010, , 278-292.		0
24	P and R Wave Detection in Complete Congenital Atrioventricular Block. Annals of Biomedical Engineering, 2009, 37, 94-106.	2.5	1
25	Changes in the Spectral Characteristics of Ventricular Fibrillation in Lesions Produced by Radiofrequency Ablation. An Experimental Study. Revista Espanola De Cardiologia (English Ed ), 2008, 61, 394-403.	0.6	1
26	BioLab: An Educational Tool for Signal Processing Training in Biomedical Engineering. IEEE Transactions on Education, 2007, 50, 34-40.	2.4	17
27	Modification of Ventricular Fibrillation Activation Patterns Induced by Local Stretching. Journal of Cardiovascular Electrophysiology, 2005, 16, 1087-1096.	1.7	38
28	Foetal ECG recovery using dynamic neural networks. Artificial Intelligence in Medicine, 2004, 31, 197-209.	6.5	56
29	High performance hardware correlation coefficient assessment using programmable logic for ECG signals. Microprocessors and Microsystems, 2003, 27, 33-39.	2.8	5
30	Effects of acute reduction of temperature on ventricular fibrillation activation patterns. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2331-H2340.	3.2	31
31	Opposite Effects of Myocardial Stretch and Verapamil on the Complexity of the Ventricular Fibrillatory Pattern: An Experimental Study. PACE - Pacing and Clinical Electrophysiology, 2000, 23, 1594-1603.	1.2	22
32	Alteration of Ventricular Fibrillation by Flecainide, Verapamil, and Sotalol. Circulation, 2000, 101, 1606-1615.	1.6	76
33	Quantification of the Modifications in the Dominant Frequency of Ventricular Fibrillation under Conditions of Ischemia and Reperfusion: An Experimental Study. PACE - Pacing and Clinical Electrophysiology, 1998, 21, 1716-1723.	1.2	21
34	Application of adaptive signal processing for determining the limits of P and T waves in an ECG. IEEE Transactions on Biomedical Engineering, 1998, 45, 1077-1080.	4.2	45
35	An easy demonstration of the optimum value of the adaptation constant in the LMS algorithm [FIR filter theory]. IEEE Transactions on Education, 1998, 41, 81.	2.4	24
36	Modifications in the evolution of the dominant frequency in ventricular fibrillation induced by amiodarone, diltiazem, and flecainide. Journal of Electrocardiology, 1996, 29, 319-326.	0.9	20

#	ARTICLE	IF	CITATIONS
37	NEMESIS: a new telemedicine approach to cardiologic software. , 0, , .		4
38	Analysis of heart rate variability in diabetic patients affected by autonomic cardiovascular neuropathy. , 0, , .		1
39	Spectral coherence of ventricular fibrillation under conditions of coronary perfusion, dilatation and drug administration. , 0, , .		0