

Áscar Barquero-Pérez

List of Publications by Year in descending order

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57
papers

598
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706676

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63
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docs citations

63
times ranked

884
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Neural Network: An Alternative to Traditional Channel Estimators in Massive MIMO Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 657-671.	4.9	7
2	Electrocardiographic imaging including intracardiac information to achieve accurate global mapping during atrial fibrillation. Biomedical Signal Processing and Control, 2021, 64, 102354.	3.5	3
3	Machine learning approaches to constructing predictive models of vitamin D deficiency in a hypertensive population: a comparative study. Informatics for Health and Social Care, 2021, 46, 355-369.	1.4	7
4	The Use of Machine Learning Techniques to Determine the Predictive Value of Inflammatory Biomarkers in the Development of Type 2 Diabetes Mellitus. Metabolic Syndrome and Related Disorders, 2021, 19, 240-248.	0.5	6
5	Assessment of Classification Models and Relevant Features on Nonalcoholic Steatohepatitis Using Random Forest. Entropy, 2021, 23, 763.	1.1	12
6	Non-invasive Estimation of Atrial Fibrillation Driver Position With Convolutional Neural Networks and Body Surface Potentials. Frontiers in Physiology, 2021, 12, 733449.	1.3	4
7	Pulse Wave Velocity and Machine Learning to Predict Cardiovascular Outcomes in Prediabetic and Diabetic Populations. Journal of Medical Systems, 2020, 44, 16.	2.2	22
8	Autonomic Nervous System and Recall Modeling in Audiovisual Emotion-Mediated Advertising Using Partial Least Squares-Path Modeling. Frontiers in Psychology, 2020, 11, 576771.	1.1	8
9	Use of a K-nearest neighbors model to predict the development of type 2 diabetes within 2 years in an obese, hypertensive population. Medical and Biological Engineering and Computing, 2020, 58, 991-1002.	1.6	30
10	Logistic LASSO and Elastic Net to Characterize Vitamin D Deficiency in a Hypertensive Obese Population. Metabolic Syndrome and Related Disorders, 2020, 18, 79-85.	0.5	10
11	Identification of clinically relevant features in hypertensive patients using penalized regression: a case study of cardiovascular events. Medical and Biological Engineering and Computing, 2019, 57, 2011-2026.	1.6	5
12	Relevant Features in Nonalcoholic Steatohepatitis Determined Using Machine Learning for Feature Selection. Metabolic Syndrome and Related Disorders, 2019, 17, 444-451.	0.5	17
13	Nasal shedding of <i>Mycobacterium tuberculosis</i> in wild boar is related to generalised tuberculosis and concomitant infections. Veterinary Record, 2019, 185, 629-629.	0.2	8
14	Lack of improvement in autonomic cardiac tone after sacubitril/valsartan at lower than target doses. Journal of Electrocardiology, 2019, 52, 99-100.	0.4	1
15	Cardiovascular risk assessment in prediabetic patients in a hypertensive population: The role of cystatin C. Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2018, 12, 625-629.	1.8	6
16	Biometrical measurements as efficient indicators to assess wild boar body condition. Ecological Indicators, 2018, 88, 43-50.	2.6	15
17	Full Band Spectra Analysis of Gait Acceleration Signals for Peripheral Arterial Disease Patients. Frontiers in Physiology, 2018, 9, 1061.	1.3	5
18	On the Influence of Heart Rate and Coupling Interval Prematurity on Heart Rate Turbulence. IEEE Transactions on Biomedical Engineering, 2017, 64, 302-309.	2.5	4

#	ARTICLE	IF	CITATIONS
19	Cystatin C as a predictor of cardiovascular outcomes in a hypertensive population. <i>Journal of Human Hypertension</i> , 2017, 31, 801-807.	1.0	18
20	Fetal Heart Rate Analysis for Automatic Detection of Perinatal Hypoxia Using Normalized Compression Distance and Machine Learning. <i>Frontiers in Physiology</i> , 2017, 8, 113.	1.3	7
21	Sudden Cardiac Risk Stratification with Electrocardiographic Indices - A Review on Computational Processing, Technology Transfer, and Scientific Evidence. <i>Frontiers in Physiology</i> , 2016, 7, 82.	1.3	35
22	Regularization Techniques for ECG Imaging during Atrial Fibrillation: A Computational Study. <i>Frontiers in Physiology</i> , 2016, 7, 466.	1.3	44
23	Association between vitamin D supplementation and severity of tuberculosis in wild boar and red deer. <i>Research in Veterinary Science</i> , 2016, 108, 116-119.	0.9	13
24	High diagnostic quality ECG compression and CS signal reconstruction in body sensor networks. , 2016, , .		3
25	A new method for ageing wild boar using dental measures. <i>Ecological Indicators</i> , 2016, 62, 328-332.	2.6	9
26	Evolution of the Heart Rate Variability complexity during Kangchenjunga climbing. , 2015, , .		0
27	Quality estimation of the electrocardiogram using cross-correlation among leads. <i>BioMedical Engineering OnLine</i> , 2015, 14, 59.	1.3	32
28	Heart Rate Turbulence modeling using Boosted Regression Trees. , 2015, , .		0
29	Fetal heart rate complexity measures to detect hypoxia. , 2015, , .		2
30	Long-term characterization of persistent atrial fibrillation: wave morphology, frequency, and irregularity analysis. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 1053-1060.	1.6	10
31	Spectrally adapted Mercer kernels for support vector nonuniform interpolation. <i>Signal Processing</i> , 2014, 94, 421-433.	2.1	15
32	Nonparametric Signal Processing Validation in T-Wave Alternans Detection and Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1328-1338.	2.5	17
33	Heart rate control in chronic heart failure: Resting versus mean heart rate with prolonged ambulatory ECG recording. <i>International Journal of Cardiology</i> , 2013, 170, e45-e47.	0.8	9
34	Ontology for Heart Rate Turbulence Domain From The Conceptual Model of SNOMED-CT. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1825-1833.	2.5	7
35	Heart Rate Turbulence Analysis Based on Photoplethysmography. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 3149-3155.	2.5	44
36	Heart rate variability and phantom pain in male amputees: Application of linear and nonlinear methods. <i>Journal of Rehabilitation Research and Development</i> , 2013, 50, 449.	1.6	9

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37	Prognostic Significance of Long-Period Heart Rate Rhythms in Chronic Heart Failure. <i>Circulation Journal</i> , 2012, 76, 2124-2129.	0.7	4
38	Fundamental frequency estimation in atrial fibrillation signals using correntropy and Fourier Organization Analysis. , 2012, , .		1
39	Short-Term Variability of Heart Rate Turbulence in Chronic Heart Failure. <i>Journal of Cardiac Failure</i> , 2011, 17, 735-741.	0.7	6
40	Heart Rate Variability on 7-Day Holter Monitoring Using a Bootstrap Rhythmometric Procedure. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1366-1376.	2.5	18
41	Fundamental Frequency and Regularity of Cardiac Electrograms With Fourier Organization Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2168-2177.	2.5	16
42	Comparison of Detection of Arrhythmias in Patients With Chronic Heart Failure Secondary to Non-Ischemic Versus Ischemic Cardiomyopathy by 1 Versus 7-Day Holter Monitoring. <i>American Journal of Cardiology</i> , 2010, 106, 677-681.	0.7	20
43	A Review on Recent Patents in Digital Processing for Cardiac Electric Signals (II): Advanced Systems and Applications. <i>Recent Patents on Biomedical Engineering</i> , 2009, 2, 32-47.	0.5	3
44	A Review on Recent Patents in Digital Processing for Cardiac Electric Signals (I): From Basic Systems to Arrhythmia Analysis. <i>Recent Patents on Biomedical Engineering</i> , 2009, 2, 22-31.	0.5	3
45	Heart Rate Turbulence Denoising Using Support Vector Machines. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 310-319.	2.5	15
46	Changes in Detrended Fluctuation indices with aging in healthy and Congestive Heart Failure subjects. , 2008, , .		5
47	Detection and estimation of T wave alternans with matched filter and nonparametric bootstrap test. , 2008, , .		2
48	Characterization of Heart Rate Variability loss with aging and heart failure using Sample Entropy. , 2008, , .		8
49	Analysis of physiological meaning of detrended Fluctuation Analysis in Heart Rate Variability using a lumped parameter model. , 2007, , .		7
50	Estimating heart rate turbulence from a single ectopic beat with robust processing. <i>Journal of Electrocardiology</i> , 2007, 40, S33-S34.	0.4	0
51	Analysis of Heart Rate Variability Influence on Heart Rate Turbulence Using Boosted Regression Trees in Heart Failure Patients. , 0, , .		0
52	Modeling Cardiovascular Condition Evolution in Hypertensive Population Using Graph Signal Processing. , 0, , .		0
53	L1 Penalized Cox Regression to Characterize Cardiovascular Events in Hypertensive Patients. , 0, , .		0
54	Including a Priori Knowledge in the Solution of the Inverse Problem During Atrial Fibrillation. , 0, , .		0

#	ARTICLE	IF	CITATIONS
55	Performance of Inverse Problem Regularization Methods for Driver Location during Atrial Fibrillation. , 0, , .		1
56	A Group Lasso Based Method for Automatic Physiological Rhythm Analysis. , 0, , .		0
57	Atrial Fibrillation Driver Localization From Body Surface Potentials Using Deep Learning. , 0, , .		0