Jos Joaqun Rieta

List of Publications by Year in Descending Order

123 papers	1,801 citations	22 h-index	39 g-index
179 ext. papers	2,225 ext. citations	2.6 avg, IF	4.87 L-index

#	Paper	IF	Citations
123	The Dissimilar Impact in Atrial Substrate Modificationof Left and Right Pulmonary Veins Isolation after Catheter Ablation of Paroxysmal Atrial Fibrillation.. *Journal of Personalized Medicine*, **2022**, 12,	3.6	1
122	The Relevance of Calibration in Machine Learning-Based Hypertension Risk Assessment Combining Photoplethysmography and Electrocardiography. *Biosensors*, **2022**, 12, 289	5.9	0
121	The Relevance of Heart Rate Fluctuation When Evaluating Atrial Substrate Electrical Features in Catheter Ablation of Paroxysmal Atrial Fibrillation. *Journal of Cardiovascular Development and Disease*, **2022**, 9, 176	4.2	
120	Early Prediction of Students at Risk of Failing a Face-to-Face Course in Power Electronic Systems. *IEEE Transactions on Learning Technologies*, **2021**, 1-1	4	1
119	Splitting the P-Wave: Improved Evaluation of Left Atrial Substrate Modification after Pulmonary Vein Isolation of Paroxysmal Atrial Fibrillation.. *Sensors*, **2021**, 22,	3.8	2
118	Short-Time Estimation of Fractionation in Atrial Fibrillation with Coarse-Grained Correlation Dimension for Mapping the Atrial Substrate. *Entropy*, **2020**, 22,	2.8	4
117	A Deep Learning Approach for Featureless Robust Quality Assessment of Intermittent Atrial Fibrillation Recordings from Portable and Wearable Devices. *Entropy*, **2020**, 22,	2.8	8
116	. *IEEE Transactions on Education*, **2020**, 63, 144-154	2.1	3
115	Multi-scale Entropy Evaluates the Proarrhythmic Condition of Persistent Atrial Fibrillation Patients Predicting Early Failure of Electrical Cardioversion. *Entropy*, **2020**, 22,	2.8	1
114	Study on How Catheter Ablation Affects Atrial Structures in Patients with Paroxysmal Atrial Fibrillation: The Case of the Coronary Sinus **2020**,		3
113	Reference database and performance evaluation of methods for extraction of atrial fibrillatory waves in the ECG. *Physiological Measurement*, **2019**, 40, 075011	2.9	1
112	Signal Analysis in Atrial Fibrillation. *Series in Bioengineering*, **2019**, 331-350	0.7	0
111	The stationary wavelet transform as an efficient reductor of powerline interference for atrial bipolar electrograms in cardiac electrophysiology. *Physiological Measurement*, **2019**, 40, 075003	2.9	4
110	Fuzzy and Sample Entropies as Predictors of Patient Survival Using Short Ventricular Fibrillation Recordings during out of Hospital Cardiac Arrest. *Entropy*, **2018**, 20,	2.8	10
109	A novel wavelet-based filtering strategy to remove powerline interference from electrocardiograms with atrial fibrillation. *Physiological Measurement*, **2018**, 39, 115006	2.9	12
108	Characterization of f Waves. *Series in Bioengineering*, **2018**, 221-279	0.7	1
107	Waveform Integrity in Atrial Fibrillation: The Forgotten Issue of Cardiac Electrophysiology. *Annals of Biomedical Engineering*, **2017**, 45, 1890-1907	4.7	5

106	Applications of Nonlinear Methods to Atrial Fibrillation **2017**, 387-426		2
105	Combined Nonlinear Analysis of Atrial and Ventricular Series for Automated Screening of Atrial Fibrillation. *Complexity*, **2017**, 2017, 1-13	1.6	4
104	Electrocardiographic Spectral Features for Long-Term Outcome Prognosis of Atrial Fibrillation Catheter Ablation. *Annals of Biomedical Engineering*, **2016**, 44, 3307-3318	4.7	13
103	Application of Entropy-Based Features to Predict Defibrillation Outcome in Cardiac Arrest. *Entropy*, **2016**, 18, 313	2.8	22
102	An□sis del remodelado anatomoel□trico auricular para la predicci□ del □xito de la ablaci□ quir□gica concomitante de la fibrilaci□ auricular a largo plazo. *Cirugia Cardiovascular*, **2016**, 23, 125-131	0.1	
101	Application of the relative wavelet energy to heart rate independent detection of atrial fibrillation. *Computer Methods and Programs in Biomedicine*, **2016**, 131, 157-68	6.9	54
100	Gaussian modeling of the P-wave morphology time course applied to anticipate paroxysmal atrial fibrillation. *Computer Methods in Biomechanics and Biomedical Engineering*, **2015**, 18, 1775-84	2.1	7
99	Role of the P-wave high frequency energy and duration as noninvasive cardiovascular predictors of paroxysmal atrial fibrillation. *Computer Methods and Programs in Biomedicine*, **2015**, 119, 110-9	6.9	9
98	Application of Hurst exponents to assess atrial reverse remodeling in paroxysmal atrial fibrillation. *Physiological Measurement*, **2015**, 36, 2231-46	2.9	4
97	The P Wave Time-Frequency Variability Reflects Atrial Conduction Defects before Paroxysmal Atrial Fibrillation. *Annals of Noninvasive Electrocardiology*, **2015**, 20, 433-45	1.5	4
96	Wavelet Entropy Automatically Detects Episodes of Atrial Fibrillation from Single-Lead Electrocardiograms. *Entropy*, **2015**, 17, 6179-6199	2.8	42
95	Alteration of the P-wave non-linear dynamics near the onset of paroxysmal atrial fibrillation. *Medical Engineering and Physics*, **2015**, 37, 692-7	2.4	7
94	**2015**,		1
93	Estudio multic□trico espa□l para la predicci□ del riesgo perioperatorio de accidente cerebrovascular tras cirug□ de bypass coronario aislada: el modelo PACK2. *Cirugia Cardiovascular*, **2014**, 21, 175-180	0.1	
92	Comparative assessment of nonlinear metrics to quantify organization-related events in surface electrocardiograms of atrial fibrillation. *Computers in Biology and Medicine*, **2014**, 48, 66-76	7	5
91	Preoperative study of the surface ECG for the prognosis of atrial fibrillation maze surgery outcome at discharge. *Physiological Measurement*, **2014**, 35, 1409-23	2.9	2
90	Morphological variability of the P-wave for premature envision of paroxysmal atrial fibrillation events. *Physiological Measurement*, **2014**, 35, 1-14	2.9	27
89	Business creation by immigrant entrepreneurs in the valencian community. The influence of education. *International Entrepreneurship and Management Journal*, **2014**, 10, 409-426	4.9	16

88	Nonlinear synchronization assessment between atrial and ventricular activations series from the surface ECG in atrial fibrillation. *Biomedical Signal Processing and Control*, **2013**, 8, 1000-1007	4.9	5
87	Radial basis function neural networks applied to efficient QRST cancellation in atrial fibrillation. *Computers in Biology and Medicine*, **2013**, 43, 154-63	7	13
86	Ventricular activity morphological characterization: ectopic beats removal in long term atrial fibrillation recordings. *Computer Methods and Programs in Biomedicine*, **2013**, 109, 283-92	6.9	6
85	Dynamic time warping applied to estimate atrial fibrillation temporal organization from the surface electrocardiogram. *Medical Engineering and Physics*, **2013**, 35, 1341-8	2.4	12
84	. *Journal of Medical and Biological Engineering*, **2013**, 33, 239	2.2	9
83	. *Journal of Medical and Biological Engineering*, **2013**, 33, 455	2.2	2
82	Central tendency measure and wavelet transform combined in the non-invasive analysis of atrial fibrillation recordings. *BioMedical Engineering OnLine*, **2012**, 11, 46	4.1	9
81	Application of artificial neural networks for versatile preprocessing of electrocardiogram recordings. *Journal of Medical Engineering and Technology*, **2012**, 36, 90-101	1.8	9
80	Study on the P-wave feature time course as early predictors of paroxysmal atrial fibrillation. *Physiological Measurement*, **2012**, 33, 1959-74	2.9	19
79	Short-time regularity assessment of fibrillatory waves from the surface ECG in atrial fibrillation. *Physiological Measurement*, **2012**, 33, 969-84	2.9	15
78	Application of Wavelet Entropy to predict atrial fibrillation progression from the surface ECG. *Computational and Mathematical Methods in Medicine*, **2012**, 2012, 245213	2.8	16
77	Detection and removal of ventricular ectopic beats in atrial fibrillation recordings via principal component analysis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 4693-6	0.9	3
76	Noninvasive time and frequency predictors of long-standing atrial fibrillation early recurrence after electrical cardioversion. *PACE - Pacing and Clinical Electrophysiology*, **2011**, 34, 1241-50	1.6	19
75	Classification of paroxysmal and persistent atrial fibrillation in ambulatory ECG recordings. *IEEE Transactions on Biomedical Engineering*, **2011**, 58, 1441-9	5	36
74	Surface ECG organization time course analysis along onward episodes of paroxysmal atrial fibrillation. *Medical Engineering and Physics*, **2011**, 33, 597-603	2.4	4
73	Noninvasive organization analysis along consecutive episodes of paroxysmal atrial fibrillation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 1467-70	0.9	
72	Validation of surface atrial fibrillation organization indicators through invasive recordings. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 5519-22	0.9	1
71	An efficient method for ectopic beats cancellation based on radial basis function. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 6947-50	0.9	1

70	Assessment of non-invasive time and frequency atrial fibrillation organization markers with unipolar atrial electrograms. *Physiological Measurement*, **2011**, 32, 99-114	2.9	21
69	Lempel-Ziv Complexity Analysis for the Evaluation of Atrial Fibrillation Organization **2011**,		2
68	The application of nonlinear metrics to assess organization differences in short recordings of paroxysmal and persistent atrial fibrillation. *Physiological Measurement*, **2010**, 31, 115-30	2.9	17
67	Application of the phasor transform for automatic delineation of single-lead ECG fiducial points. *Physiological Measurement*, **2010**, 31, 1467-85	2.9	117
66	A new method for automatic delineation of ECG fiducial points based on the Phasor Transform. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 4586-9	0.9	8
65	Application of frequency and sample entropy to discriminate long-term recordings of paroxysmal and persistent atrial fibrillation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*,	0.9	5
64	Enhancement of atrial fibrillation electrical cardioversion procedures through the arrhythmia organization estimation from the ECG. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 122-5	0.9	1
63	Optimized assessment of atrial fibrillation organization through suitable parameters of sample Entropy. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 118-21	0.9	2
62	Optimal parameters study for sample entropy-based atrial fibrillation organization analysis. *Computer Methods and Programs in Biomedicine*, **2010**, 99, 124-32	6.9	67
61	A novel application of sample entropy to the electrocardiogram of atrial fibrillation. *Nonlinear Analysis: Real World Applications*, **2010**, 11, 1026-1035	2.1	26
60	A review on sample entropy applications for the non-invasive analysis of atrial fibrillation electrocardiograms. *Biomedical Signal Processing and Control*, **2010**, 5, 1-14	4.9	108
59	Time and frequency recurrence analysis of persistent atrial fibrillation after electrical cardioversion. *Physiological Measurement*, **2009**, 30, 479-89	2.9	13
58	Non-invasive organization variation assessment in the onset and termination of paroxysmal atrial fibrillation. *Computer Methods and Programs in Biomedicine*, **2009**, 93, 148-54	6.9	24
57	Time and frequency series combination for non-invasive regularity analysis of atrial fibrillation. *Medical and Biological Engineering and Computing*, **2009**, 47, 687-96	3.1	7
56	Non-invasive atrial fibrillation organization follow-up under successive attempts of electrical cardioversion. *Medical and Biological Engineering and Computing*, **2009**, 47, 1247-55	3.1	7
55	Sample entropy of the main atrial wave predicts spontaneous termination of paroxysmal atrial fibrillation. *Medical Engineering and Physics*, **2009**, 31, 917-22	2.4	40
54	Surface ECG organization analysis to predict paroxysmal atrial fibrillation termination. *Computers in Biology and Medicine*, **2009**, 39, 697-706	7	11
53	Caracterizaci□ no invasiva de la actividad auricular durante los instantes previos a la terminaci□ de la fibrilaci□ auricular paroxʂtica. *Revista Espanola De Cardiologia*, **2008**, 61, 154-160	1.5	9

52	Non-Invasive Characterization of Atrial Activity Immediately Prior to Termination of Paroxysmal Atrial Fibrillation. *Revista Espanola De Cardiologia (English Ed)*, **2008**, 61, 154-160	0.7	4
51	Wavelet bidomain sample entropy analysis to predict spontaneous termination of atrial fibrillation. *Physiological Measurement*, **2008**, 29, 65-80	2.9	28
50	Adaptive singular value cancelation of ventricular activity in single-lead atrial fibrillation electrocardiograms. *Physiological Measurement*, **2008**, 29, 1351-69	2.9	68
49	Neural network based canceller for Powerline Interference in ECG signals **2008**,		2
48	A non-invasive method to predict electrical cardioversion outcome of persistent atrial fibrillation. *Medical and Biological Engineering and Computing*, **2008**, 46, 625-35	3.1	27
47	Understanding Atrial Fibrillation: The Signal Processing Contribution, Part I. *Synthesis Lectures on Biomedical Engineering*, **2008**, 3, 1-129	0.3	5
46	Bidomain Sample Entropy to Predict Termination of Atrial Arrhythmias **2007**,		2
45	Automatic segmentation and 3D reconstruction of intravascular ultrasound images for a fast preliminar evaluation of vessel pathologies. *Computerized Medical Imaging and Graphics*, **2007**, 31, 71-80	7.6	42
44	Convolutive blind source separation algorithms applied to the electrocardiogram of atrial fibrillation: study of performance. *IEEE Transactions on Biomedical Engineering*, **2007**, 54, 1530-3	5	23
43	Non-linear organization analysis of paroxysmal atrial fibrillation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 1957-60		0
42	Comparative study of methods for ventricular activity cancellation in atrial electrograms of atrial fibrillation. *Physiological Measurement*, **2007**, 28, 925-36	2.9	34
41	Volume mesh generation and finite element analysis of trabecular bone magnetic resonance images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 1603-6		3
40	Clinical software for the assessment of trabecular bone disease in distal radius based on a magnetic resonance structural analysis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 2073-6		
39	A new adaptive approach to remove baseline wander from ECG recordings using Madeline structure **2007**,		2
38	Ventricular artifacts cancellation from atrial epicardial recordings in atrial tachyarrhythmias. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 6504-7		1
37	Wavelet bidomain regularity analysis to predict spontaneous termination of atrial fibrillation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 1838-41		0
36	ICA for ovary tissue classification of perfusion magnetic resonance images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 1611-4		
35	ECG signal quantization effects in the analysis of atrial fibrillation **2007**,		1

34	Neural Networks Based Approach to remove Baseline drift in Biomedical Signals **2007**, 90-93		1
33	Adaptive singular value QRST cancellation for the analysis of short single lead atrial fibrillation electrocardiograms **2007**,		1
32	Non-Linear Organization Analysis of the Dominant Atrial Frequency to Predict Spontaneous Termination of Atrial Fibrillation **2007**, 94-98		0
31	A new method to determine the frequency response of enclosures using masked tones. *Applied Acoustics*, **2006**, 67, 297-305	3.1	
30	Comparison of atrial signal extraction algorithms in 12-lead ECGs with atrial fibrillation. *IEEE Transactions on Biomedical Engineering*, **2006**, 53, 343-6	5	48
29	Analysis of surface electrocardiograms in atrial fibrillation: techniques, research, and clinical applications. *Europace*, **2006**, 8, 911-26	3.9	127
28	Wavelet Denoising as Preprocessing Stage to Improve ICA Performance in Atrial Fibrillation Analysis. *Lecture Notes in Computer Science*, **2006**, 486-494	0.9	2
27	Derivation of Atrial Surface Reentries Applying ICA to the Standard Electrocardiogram of Patients in Postoperative Atrial Fibrillation. *Lecture Notes in Computer Science*, **2006**, 478-485	0.9	1
26	Performance Study of Convolutive BSS Algorithms Applied to the Electrocardiogram of Atrial Fibrillation. *Lecture Notes in Computer Science*, **2006**, 495-502	0.9	2
25	Atrial activity extraction from atrial fibrillation episodes based on maximum likelihood source separation. *Signal Processing*, **2005**, 85, 523-535	4.4	19
24	Spatiotemporal blind source separation approach to atrial activity estimation in atrial tachyarrhythmias. *IEEE Transactions on Biomedical Engineering*, **2005**, 52, 258-67	5	93
23	Estimation of atrial fibrillatory wave from single-lead atrial fibrillation electrocardiograms using principal component analysis concepts. *Medical and Biological Engineering and Computing*, **2005**, 43, 557-60	3.1	37
22	Computational cost reduction using coincident boundary microphones for convolutive blind signal separation. *Electronics Letters*, **2005**, 41, 374	1.1	2
21	Epicardial atrial activation assessment from the surface ECG in atrial fibrillation **2005**,		1
20	Atrial activity enhancement by blind sparse sequential separation **2005**,		1
19	Convolutive Acoustic Mixtures Approximation to an Instantaneous Model Using a Stereo Boundary Microphone Configuration. *Lecture Notes in Computer Science*, **2004**, 816-823	0.9	3
18	A New Auditory-Based Index to Evaluate the Blind Separation Performance of Acoustic Mixtures. *Lecture Notes in Computer Science*, **2004**, 1118-1125	0.9	
17	Atrial activity extraction for atrial fibrillation analysis using blind source separation. *IEEE Transactions on Biomedical Engineering*, **2004**, 51, 1176-86	5	153

16	Multidimensional ICA for the Separation of Atrial and Ventricular Activities from Single Lead ECGs in Paroxysmal Atrial Fibrillation Episodes. *Lecture Notes in Computer Science*, **2004**, 1229-1236	0.9	3
15	Wavelet Domain Blind Signal Separation to Analyze Supraventricular Arrhythmias from Holter Registers. *Lecture Notes in Computer Science*, **2004**, 1111-1117	0.9	2
14	Mixing Matrix Pseudostationarity and ECG Preprocessing Impact on ICA-Based Atrial Fibrillation Analysis. *Lecture Notes in Computer Science*, **2004**, 1079-1086	0.9	6
13	Exploiting Spatiotemporal Information for Blind Atrial Activity Extraction in Atrial Arrhythmias. *Lecture Notes in Computer Science*, **2004**, 18-25	0.9	
12	Reconstruction of atrial signals derived from the 12-lead ECG using atrial signal extraction techniques **2003**,		4
11	An integral atrial wave identification based on spatiotemporal source separation: clinical validation **2003**,		4
10	Atrial activity extraction in Holter registers using adaptive wavelet analysis **2003**,		2
9	Bioelectric model of atrial fibrillation: applicability of blind source separation techniques for atrial activity estimation in atrial fibrillation episodes **2003**,		7
8	Wavelet blind separation: a new methodology for the analysis of atrial fibrillation from Holter recordings		3
7	Comparative analysis in terms of computational cost for different discrimination algorithms in implantable defibriilators		2
6	Prediction of spontaneous termination of atrial fibrillation using time frequency analysis of the atrial fibrillatory wave		4
5	Atrial fibrillation analysis based on ICA including statistical and temporal source information		8
4	Comparison of atrial rhythm extraction techniques for the estimation of the main atrial frequency from the 12-lead electrocardiogram in atrial fibrillation		14
3	Atrial fibrillation, atrial flutter and normal sinus rhythm discrimination by means of blind source separation and spectral parameters extraction		11
2	Packet wavelet decomposition: An approach for atrial activity extraction		18
1	Atrial activity extraction based on blind source separation as an alternative to QRST cancellation for atrial fibrillation analysis		20