

Montserrat Vallverdà

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

508
citations

840776

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all docs

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docs citations

26
times ranked

834
citing authors

#	ARTICLE	IF	CITATIONS
1	Refined Multiscale Entropy: Application to 24-h Holter Recordings of Heart Period Variability in Healthy and Aortic Stenosis Subjects. IEEE Transactions on Biomedical Engineering, 2009, 56, 2202-2213.	4.2	181
2	Mutual information measures applied to EEG signals for sleepiness characterization. Medical Engineering and Physics, 2015, 37, 297-308.	1.7	41
3	Human emotion recognition using heart rate variability analysis with spectral bands based on respiration. , 2015, 2015, 6134-7.		38
4	Multiscale Complexity Analysis of the Cardiac Control Identifies Asymptomatic and Symptomatic Patients in Long QT Syndrome Type 1. PLoS ONE, 2014, 9, e93808.	2.5	35
5	Short-term vs. long-term heart rate variability in ischemic cardiomyopathy risk stratification. Frontiers in Physiology, 2013, 4, 364.	2.8	34
6	Segmented Symbolic Dynamics for Risk Stratification in Patients with Ischemic Heart Failure. Cardiovascular Engineering and Technology, 2010, 1, 290-298.	1.6	15
7	Human Emotion Characterization by Heart Rate Variability Analysis Guided by Respiration. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2446-2454.	6.3	15
8	Algorithm for Automatic Forced Spirometry Quality Assessment: Technological Developments. PLoS ONE, 2014, 9, e116238.	2.5	15
9	Clinical Decision Support System to Enhance Quality Control of Spirometry Using Information and Communication Technologies. JMIR Medical Informatics, 2014, 2, e29.	2.6	15
10	Ischemic risk stratification by means of multivariate analysis of the heart rate variability. Physiological Measurement, 2013, 34, 325-338.	2.1	14
11	Filtering and thresholding the analytic signal envelope in order to improve peak and spike noise reduction in EEG signals. Medical Engineering and Physics, 2014, 36, 547-553.	1.7	14
12	Poincaré plot analysis of cerebral blood flow signals: Feature extraction and classification methods for apnea detection. PLoS ONE, 2018, 13, e0208642.	2.5	14
13	Prediction of Nociceptive Responses during Sedation by Linear and Non-Linear Measures of EEG Signals in High Frequencies. PLoS ONE, 2015, 10, e0123464.	2.5	12
14	Measuring Instantaneous and Spectral Information Entropies by Shannon Entropy of Choi-Williams Distribution in the Context of Electroencephalography. Entropy, 2014, 16, 2530-2548.	2.2	11
15	Evaluation of acceleration and deceleration cardiac processes using phase-rectified signal averaging in healthy and idiopathic dilated cardiomyopathy subjects. Medical Engineering and Physics, 2015, 37, 195-202.	1.7	9
16	Assessment of Nociceptive Responsiveness Levels during Sedation-Analgesia by Entropy Analysis of EEG. Entropy, 2016, 18, 103.	2.2	9
17	Assessment of Heart Rate Variability during an Endurance Mountain Trail Race by Multi-Scale Entropy Analysis. Entropy, 2017, 19, 658.	2.2	7
18	Entropy Measures as Descriptors to Identify Apneas in Rheoencephalographic Signals. Entropy, 2019, 21, 605.	2.2	7

#	ARTICLE	IF	CITATIONS
19	Computational Detection of Transcription Factor Binding Sites Through Differential Rényi Entropy. IEEE Transactions on Information Theory, 2010, 56, 734-741.	2.4	6
20	Symbolic dynamics to discriminate healthy and ischaemic dilated cardiomyopathy populations: an application to the variability of heart period and QT interval. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140092.	3.4	4
21	Protocol for regional implementation of collaborative lung function testing. Npj Primary Care Respiratory Medicine, 2016, 26, 16024.	2.6	4
22	Refined Multiscale Entropy Using Fuzzy Metrics: Validation and Application to Nociception Assessment. Entropy, 2019, 21, 706.	2.2	4
23	Regularity of Cardiac Rhythm as a Marker of Sleepiness in Sleep Disordered Breathing. PLoS ONE, 2015, 10, e0122645.	2.5	3
24	Detection of transcription factor binding sites using Rényi entropy. , 2008, , .		1
25	DNA Binding Sites Characterization by Means of Rényi Entropy Measures on Nucleotide Transitions. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0