Vincenzo Catrambone

List of Publications by Year
in descending order

32	412	759055 12	996849 15
papers	citations	h-index	g-index

34	34	34	144
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cardiac sympathetic-vagal activity initiates a functional brainâ€“body response to emotional arousal. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119599119.	3.3	55
2	Time-Resolved Directional Brainâ€“Heart Interplay Measurement Through Synthetic Data Generation Models. Annals of Biomedical Engineering, 2019, 47, 1479-1489.	1.3	47
3	The role of electroencephalography electrical reference in the assessment of functional brainâ€“heart interplay: From methodology to user guidelines. Journal of Neuroscience Methods, 2021, 360, 109269.	1.3	38
4	Intensification of functional neural control on heartbeat dynamics in subclinical depression. Translational Psychiatry, 2021, 11, 221.	2.4	33
5	Lateralization of directional brain-heart information transfer during visual emotional elicitation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R25-R38.	0.9	32
6	Functional assessment of bidirectional cortical and peripheral neural control on heartbeat dynamics: A brain-heart study on thermal stress. NeuroImage, 2022, 251, 119023.	2.1	28
7	On the Time-Invariance Properties of Upper Limb Synergies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1397-1406.	2.7	21
8	Functional Linear and Nonlinear Brainâ€“Heart Interplay during Emotional Video Elicitation: A Maximum Information Coefficient Study. Entropy, 2019, 21, 892.	1.1	20
9	Predicting Object-Mediated Gestures From Brain Activity: An EEG Study on Gender Differences. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 411-418.	2.7	19
10	Functional brainâ€“heart interplay extends to the multifractal domain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200260.	1.6	19
11	U-Limb: A multi-modal, multi-center database on arm motion control in healthy and post-stroke conditions. GigaScience, 2021, 10, .	3.3	18
12	Time-Resolved Brain-to-Heart Probabilistic Information Transfer Estimation Using Inhomogeneous Point-Process Models. IEEE Transactions on Biomedical Engineering, 2021, 68, 3366-3374.	2.5	15
13	Integral pulse frequency modulation model driven by sympathovagal dynamics: Synthetic vs. real heart rate variability. Biomedical Signal Processing and Control, 2021, 68, 102736.	3.5	15
14	Toward brainâ€“heart computer interfaces: a study on the classification of upper limb movements using multisystem directional estimates. Journal of Neural Engineering, 2021, 18, 046002.	1.8	12
15	EEG Complexity Maps to Characterise Brain Dynamics during Upper Limb Motor Imagery. , 2018, 2018, 3060-3063.		7
16	Quantifying Functional Links between Brain and Heartbeat Dynamics in the Multifractal Domain: a Preliminary Analysis. , 2020, 2020, 561-564.		5
17	A Multiscale Partition-Based Kolmogorovâ€“Sinai Entropy for the Complexity Assessment of Heartbeat Dynamics. Bioengineering, 2022, 9, 80.	1.6	5
18	Methodological Considerations on EEG Electrical Reference: A Functional Brain-Heart Interplay Study. , 2020, 2020, 553-556.		4

#	Article	IF	Citations
19	The Role of EEG Electrical Reference in the Assessment of Functional Brain-Heart Interplay: A Preliminary Study. , 2020, , .		4
20	EEG Processing to Discriminate Transitive-Intransitive Motor Imagery Tasks: Preliminary Evidences using Support Vector Machines. , 2018, 2018, 231-234.		3
21	Characterizing Functional Directional Brain-Heart Interplay in Subclinical Depression (Dysphoria): a Preliminary Study using EEG and HRV. , 2020, , .		2
22	An Inhomogeneous Point-process Model for the Assessment of the Brain-to-Heart Functional Interplay: a Pilot Study. , 2020, 2020, 557-560.		2
23	BHI Estimation Methodology. , 2021, , 21-50.		1
24	Sympathovagal Changes. , 2021, , 53-78.		1
25	Psychiatric and Neurological Disorders. , 2021, , 117-141.		1
26	BHI Physiology at a Glance. , 2021, , 3-19.		1
27	Characterization of upper limb movement-related EEG dynamics through fractional integrated autoregressive modeling. , 2021, 2021, 5987-5990.		1
28	Quantifying partition-based Kolmogorov-Sinai Entropy on Heart Rate Variability: a young vs. elderly study. , 2021, 2021, 5469-5472.		1
29	Functional Directional Brain-Heart Interplay Correlates of Dreaming: a Pilot Study. , 2020, , .		0
30	Motor Control. , 2021, , 155-173.		0
31	Activation of brain-heart axis during REM sleep: a trigger for dreaming. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R951-R959.	0.9	0
32	Recognizing motor imagery tasks from EEG oscillations through a novel ensemble-based neural network architecture. , 2021, 2021, 5983-5986.		0