Gaetano Valenza

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

172
papers2,845
citations29
h-index47
g-index190
ext. papers3,671
ext. citations3.1
avg, IF5.65
L-index

#	Paper	IF	Citations
172	Functional assessment of bidirectional cortical and peripheral neural control on heartbeat dynamics: A brain-heart study on thermal stress <i>NeuroImage</i> , 2022 , 251, 119023	7.9	3
171	The NEVERMIND e-health system in the treatment of depressive symptoms among patients with severe somatic conditions: A multicentre, pragmatic randomised controlled trial. <i>EClinicalMedicine</i> , 2022 , 48, 101423	11.3	О
170	Cardiac sympathetic-vagal activity initiates a functional brain-body response to emotional arousal <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e211959911	9 ^{11.5}	1
169	Recognizing motor imagery tasks from EEG oscillations through a novel ensemble-based neural network architecture. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	
168	Heart rate variability and the dawn of complex physiological signal analysis: methodological and clinical perspectives. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200255	3	5
167	Advanced computation in cardiovascular physiology: new challenges and opportunities. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 2020026	5 3	
166	Functional brain-heart interplay extends to the multifractal domain. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200260	3	3
165	Activation of brain-heart axis during REM sleep: a trigger for dreaming. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021 , 321, R951-R959	3.2	
164	Toward brain-heart computer interfaces: a study on the classification of upper limb movements using multisystem directional estimates. <i>Journal of Neural Engineering</i> , 2021 ,	5	5
163	Quantifying multidimensional control mechanisms of cardiovascular dynamics during multiple concurrent stressors. <i>Medical and Biological Engineering and Computing</i> , 2021 , 59, 775-785	3.1	
162	Intensification of functional neural control on heartbeat dynamics in subclinical depression. <i>Translational Psychiatry</i> , 2021 , 11, 221	8.6	9
161	U-Limb: A multi-modal, multi-center database on arm motion control in healthy and post-stroke conditions. <i>GigaScience</i> , 2021 , 10,	7.6	6
160	Integral pulse frequency modulation model driven by sympathovagal dynamics: Synthetic vs. real heart rate variability. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102736	4.9	4
159	Heart rate variability analysis for the assessment of immersive emotional arousal using virtual reality: Comparing real and virtual scenarios. <i>PLoS ONE</i> , 2021 , 16, e0254098	3.7	4
158	Brain Dynamics During Arousal-Dependent Pleasant/Unpleasant Visual Elicitation: An Electroencephalographic Study on the Circumplex Model of Affect. <i>IEEE Transactions on Affective Computing</i> , 2021 , 12, 417-428	5.7	5
157	Increased functional connectivity within alpha and theta frequency bands in dysphoria: A resting-state EEG study. <i>Journal of Affective Disorders</i> , 2021 , 281, 199-207	6.6	6
156	Time-Resolved Brain-to-Heart Probabilistic Information Transfer Estimation Using Inhomogeneous Point-Process Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 3366-3374	5	4

155	BHI Estimation Methodology 2021 , 21-50		O
154	Sympathovagal Changes 2021 , 53-78		O
153	Psychiatric and Neurological Disorders 2021 , 117-141		
152	BHI Physiology at a Glance 2021 , 3-19		O
151	Motor Control 2021 , 155-173		
150	Bioelectric Impedance Analysis Test Improves the Detection of Prostate Cancer in Biopsy Candidates: A Multifeature Decision Support System. <i>Frontiers in Oncology</i> , 2021 , 11, 555277	5.3	O
149	The role of electroencephalography electrical reference in the assessment of functional brain-heart interplay: From methodology to user guidelines. <i>Journal of Neuroscience Methods</i> , 2021 , 360, 109269	3	7
148	Characterization of upper limb movement-related EEG dynamics through fractional integrated autoregressive modeling. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	
147	Quantifying partition-based Kolmogorov-Sinai Entropy on Heart Rate Variability: a young vs. elderly study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 5469-5472	0.9	0
146	Inferring directionality of coupled dynamical systems using Gaussian process priors: Application on neurovascular systems <i>Physical Review E</i> , 2021 , 104, 064208	2.4	1
145	Exploiting upper-limb functional principal components for human-like motion generation of anthropomorphic robots. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020 , 17, 63	5.3	15
144	Uncovering complex central autonomic networks at rest: a functional magnetic resonance imaging study on complex cardiovascular oscillations. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190878	4.1	23
143	Assessing Autonomic Function from Electrodermal Activity and Heart Rate Variability During Cold-Pressor Test and Emotional Challenge. <i>Scientific Reports</i> , 2020 , 10, 5406	4.9	27
142	A protocol for a multicentre, parallel-group, pragmatic randomised controlled trial to evaluate the NEVERMIND system in preventing and treating depression in patients with severe somatic conditions. <i>BMC Psychiatry</i> , 2020 , 20, 93	4.2	3
141	Intrinsic Complexity of Sympathetic and Parasympathetic Dynamics from HRV series: a Preliminary Study on Postural Changes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	
140	Quantifying Functional Links between Brain and Heartbeat Dynamics in the Multifractal Domain: a Preliminary Analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020 ,	0.9	4
139	Characterizing Functional Directional Brain-Heart Interplay in Subclinical Depression (Dysphoria): a Preliminary Study using EEG and HRV 2020 ,		2
138	Methodological Considerations on EEG Electrical Reference: A Functional Brain-Heart Interplay Study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020 , 2020, 553-556	0.9	4

137	An Inhomogeneous Point-process Model for the Assessment of the Brain-to-Heart Functional Interplay: a Pilot Study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	2
136	2020 , 2020, 557-560 The Role of EEG Electrical Reference in the Assessment of Functional Brain-Heart Interplay: A Preliminary Study 2020 ,		2
135	Classifying Affective Haptic Stimuli through Gender-Specific Heart Rate Variability Nonlinear Analysis. <i>IEEE Transactions on Affective Computing</i> , 2020 , 11, 459-469	5.7	5
134	Central modulation of parasympathetic outflow is impaired in de novo Parkinson's disease patients. <i>PLoS ONE</i> , 2019 , 14, e0210324	3.7	8
133	Brain Dynamics Induced by Pleasant/Unpleasant Tactile Stimuli Conveyed by Different Fabrics. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 2417-2427	7.2	5
132	Multichannel Complexity Index (MCI) for a multi-organ physiological complexity assessment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 530, 121543	3.3	7
131	Lateralization of directional brain-heart information transfer during visual emotional elicitation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019 , 317, R25-R38	3.2	14
130	Time-Resolved Directional Brain-Heart Interplay Measurement Through Synthetic Data Generation Models. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 1479-1489	4.7	24
129	The central autonomic network at rest: Uncovering functional MRI correlates of time-varying autonomic outflow. <i>NeuroImage</i> , 2019 , 197, 383-390	7.9	43
128	Assessment of muscle fatigue during isometric contraction using autonomic nervous system correlates. <i>Biomedical Signal Processing and Control</i> , 2019 , 51, 42-49	4.9	11
127	On the Time-Invariance Properties of Upper Limb Synergies. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 1397-1406	4.8	15
126	Real vs. immersive-virtual emotional experience: Analysis of psycho-physiological patterns in a free exploration of an art museum. <i>PLoS ONE</i> , 2019 , 14, e0223881	3.7	19
125	Predicting Object-Mediated Gestures From Brain Activity: An EEG Study on Gender Differences. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 411-418	4.8	16
124	A functional analysis-based approach to quantify upper limb impairment level in chronic stroke patients: a pilot study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	12
123	Effect of yoga on pulse rate variability measured from a venous pressure waveform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 372-375	0.9	2
122	Functional Linear and Nonlinear BrainHeart Interplay during Emotional Video Elicitation: A Maximum Information Coefficient Study. <i>Entropy</i> , 2019 , 21, 892	2.8	14
121	Assessment of linear and nonlinear/complex heartbeat dynamics in subclinical depression (dysphoria). <i>Physiological Measurement</i> , 2018 , 39, 034004	2.9	8
120	Simplifying Telerobotics: Wearability and Teleimpedance Improves Human-Robot Interactions in Teleoperation. <i>IEEE Robotics and Automation Magazine</i> , 2018 , 25, 77-88	3.4	24

119	Mortality Prediction in Severe Congestive Heart Failure Patients with Multifractal Point-Process Modeling of Heartbeat Dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2345-2354	5	21
118	Reliability of Lagged Poincar Plot Parameters in Ultrashort Heart Rate Variability Series: Application on Affective Sounds. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 741-749	7.2	17
117	Measures of sympathetic and parasympathetic autonomic outflow from heartbeat dynamics. Journal of Applied Physiology, 2018 , 125, 19-39	3.7	29
116	Multivariate Granger causality unveils directed parietal to prefrontal cortex connectivity during task-free MRI. <i>Scientific Reports</i> , 2018 , 8, 5571	4.9	25
115	Analysis of Instantaneous Linear, Nonlinear and Complex Cardiovascular Dynamics from Videophotoplethysmography. <i>Methods of Information in Medicine</i> , 2018 , 57, 135-140	1.5	2
114	Affective communication during bad news consultation. Effect on analogue patientsTheart rate variability and recall. <i>Patient Education and Counseling</i> , 2018 , 101, 1892-1899	3.1	9
113	Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1077-1085	5	9
112	Assessment of Instantaneous Heartbeat Dynamics in amnestic Mild Cognitive Impairment. <i>IFMBE Proceedings</i> , 2018 , 366-369	0.2	
111	EEG Complexity Maps to Characterise Brain Dynamics during Upper Limb Motor Imagery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 3060-3063	0.9	6
110	EEG Processing to Discriminate Transitive-Intransitive Motor Imagery Tasks: Preliminary Evidences using Support Vector Machines. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	3
109	A Case for the Interspecies Transfer of Emotions: A Preliminary Investigation on How Humans Odors Modify Reactions of the Autonomic Nervous System in Horses. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and	0.9	9
108	ECG-Derived Sympathetic and Parasympathetic Activity in the Healthy: an Early Lower-Body Negative Pressure Study Using Adaptive Kalman Prediction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society	0.9	2
107	Refined Generalized Multivariate Multiscale Fuzzy Entropy: A Preliminary Study on Multichannel Physiological Complexity During Postural Changes 2018 ,		1
106	Affective computing in virtual reality: emotion recognition from brain and heartbeat dynamics using wearable sensors. <i>Scientific Reports</i> , 2018 , 8, 13657	4.9	124
105	EEG oscillations during caress-like affective haptic elicitation. <i>Psychophysiology</i> , 2018 , 55, e13199	4.1	10
104	Complexity Variability Assessment of Nonlinear Time-Varying Cardiovascular Control. <i>Scientific Reports</i> , 2017 , 7, 42779	4.9	29
103	Perspective: It To All About Time. IEEE Transactions on Nanobioscience, 2017, 16, 309-310	3.4	
102	Assessing mood symptoms through heartbeat dynamics: An HRV study on cardiosurgical patients. Journal of Psychiatric Research, 2017 , 95, 179-188	5.2	5

101	Causal brain-heart information transfer during visual emotional elicitation in healthy subjects: Preliminary evaluations and future perspectives. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 1559-1562	0.9	3	
100	Applications of Heartbeat Complexity Analysis to Depression and Bipolar Disorder 2017 , 345-374			
99	Exploiting Physiological Sensors and Biosignal Processing to Enhance Monitoring Care in Mental Health. <i>Scalable Computing and Communications</i> , 2017 , 515-550	0.2	1	
98	Time-Varying Cardiovascular Complexity with Focus on Entropy and Lyapunov Exponents 2017 , 233-25	56		
97	Heart rate variability analysis during muscle fatigue due to prolonged isometric contraction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1324-1327	0.9	О	
96	Longitudinal monitoring of heartbeat dynamics predicts mood changes in bipolar patients: A pilot study. <i>Journal of Affective Disorders</i> , 2017 , 209, 30-38	6.6	12	
95	Arousal and Valence Recognition of Affective Sounds Based on Electrodermal Activity. <i>IEEE Sensors Journal</i> , 2017 , 17, 716-725	4	55	
94	Validation of smart textile electrodes for electrocardiogram monitoring in free-moving horses. Journal of Veterinary Behavior: Clinical Applications and Research, 2017, 17, 19-23	1.9	12	
93	On the Role of Affective Properties in Hedonic and Discriminant Haptic Systems. <i>International Journal of Social Robotics</i> , 2017 , 9, 87-95	4	9	
92	Nonlinear analysis of heart rate variability for the assessment of Dysphoria. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3170-3173	0.9		
91	Self-reported well-being score modelling and prediction: Proof-of-concept of an approach based on linear dynamic systems. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	1	
90	Muscle fatigue assessment through electrodermal activity analysis during isometric contraction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017 , 2017, 398-401	0.9	1	
89	Heartbeat Complexity Modulation in Bipolar Disorder during Daytime and Nighttime. <i>Scientific Reports</i> , 2017 , 7, 17920	4.9	13	
88	Recognition of affective haptic stimuli conveyed by different fabrics sing EEG-based sparse SVM 2017 ,		2	
87	ForceVelocity Assessment of Caress-Like Stimuli Through the Electrodermal Activity Processing: Advantages of a Convex Optimization Approach. <i>IEEE Transactions on Human-Machine Systems</i> , 2016 , 1-10	4.1	15	
86	Guest Editorial Sensor Informatics for Managing Mental Health. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 975-976	7.2		
85	Advances in Electrodermal Activity Processing with Applications for Mental Health 2016,		29	
84	Electrodermal Phenomena and Recording Techniques 2016 , 1-17		1	

83 Emotions and Mood States: Modeling, Elicitation, and Recognition **2016**, 45-54

82	Experimental Applications on Multi-Sensory Affective Stimulation 2016 , 55-109		
81	Gender-specific automatic valence recognition of affective olfactory stimulation through the analysis of the electrodermal activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International</i>	0.9	4
80	Exploratory analysis of nonlinear coupling between EEG global field power and end-tidal carbon dioxide in free breathing and breath-hold tasks. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual	0.9	1
79	On the pleasantness of a haptic stimulation: how different textures can be recognized through heart rate variability nonlinear analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International	0.9	1
78	Stochastic modeling of spontaneous bursting activity to simulate neural responses of in-vitro networks on multielectrode arrays. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International	0.9	
77	Reconstructing multivariate causal structure between functional brain networks through a Laguerre-Volterra based Granger causality approach. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual	0.9	1
76	Automatic recognition of pleasant content of odours through ElectroEncephaloGraphic activity analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 4519-4522	0.9	7
75	Predicting Mood Changes in Bipolar Disorder through Heartbeat Nonlinear Dynamics. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 1034-1043	7.2	35
74	Assessment of spontaneous cardiovascular oscillations in Parkinson's disease. <i>Biomedical Signal Processing and Control</i> , 2016 , 26, 80-89	4.9	22
73	cvxEDA: A Convex Optimization Approach to Electrodermal Activity Processing. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 797-804	5	145
72	Relationship between cardiac vagal activity and mood congruent memory bias in major depression. Journal of Affective Disorders, 2016 , 190, 19-25	6.6	5
71	Modeling for the Analysis of the EDA 2016 , 19-33		1
70	Skin Admittance Measurement for Emotion Recognition: A Study over Frequency Sweep. <i>Electronics (Switzerland)</i> , 2016 , 5, 46	2.6	25
69	A Wearable System for the Evaluation of the Human-Horse Interaction: A Preliminary Study. <i>Electronics (Switzerland)</i> , 2016 , 5, 63	2.6	18
68	Valence-dependent changes in visual arousing elicitation: an exploratory study in EEG gamma oscillations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 4555-4558	0.9	1
67	Neuron-glia cross talk revealed in reverberating networks by simultaneous extracellular recording of spikes and astrocytesTglutamate transporter and K+ currents. <i>Journal of Neurophysiology</i> , 2016 , 116, 2706-2719	3.2	8
66	Investigating mechanical properties of a fabric-based affective haptic display through electrodermal activity analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	
	2016, 2016, 407-410		

65	Combining electroencephalographic activity and instantaneous heart rate for assessing brain-heart dynamics during visual emotional elicitation in healthy subjects. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	61
64	The heart side of brain neuromodulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	28
63	Uncovering brain-heart information through advanced signal and image processing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	26
62	Gender-specific velocity recognition of caress-like stimuli through nonlinear analysis of Heart Rate Variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 298-301	0.9	8
61	Electroencephalographic spectral correlates of caress-like affective haptic stimuli. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4733-6	0.9	3
60	Characterizing psychological dimensions in non-pathological subjects through autonomic nervous system dynamics. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 37	3.5	13
59	A Novel Algorithm for Movement Artifact Removal in ECG Signals Acquired from Wearable Systems Applied to Horses. <i>PLoS ONE</i> , 2015 , 10, e0140783	3.7	24
58	Nonlinear digital signal processing in mental health: characterization of major depression using instantaneous entropy measures of heartbeat dynamics. <i>Frontiers in Physiology</i> , 2015 , 6, 74	4.6	17
57	. IEEE Transactions on Affective Computing, 2015, 6, 385-394	5.7	108
56	Instantaneous transfer entropy for the study of cardio-respiratory dynamics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7885-8	0.9	4
55	Brain dynamics during emotion elicitation in healthy subjects: An EEG study 2015,		2
54	Electrodermal activity analysis during affective haptic elicitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 5777-80	0.9	10
53	On the tridimensional estimation of the gaze point by a stereoscopic wearable eye tracker. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 2283-6	0.9	2
52	2015,		3
51	Predicting mood changes in bipolar disorder through heartbeat nonlinear dynamics: A preliminary study 2015 ,		4
50	2015,		1
49	Arousal recognition system based on heartbeat dynamics during auditory elicitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6110-3	0.9	2
48	Removing movement artifacts from equine ECG recordings acquired with textile electrodes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1955-8	0.9	5

47	. IEEE Transactions on Intelligent Transportation Systems, 2015 , 16, 1505-1517	6.1	78
46	Characterization of depressive States in bipolar patients using wearable textile technology and instantaneous heart rate variability assessment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 263-74	7.2	48
45	Complexity index from a personalized wearable monitoring system for assessing remission in mental health. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 132-9	7.2	100
44	Revealing real-time emotional responses: a personalized assessment based on heartbeat dynamics. <i>Scientific Reports</i> , 2014 , 4, 4998	4.9	96
43	Advanced technology meets mental health: how smartphones, textile electronics, and signal processing can serve mental health monitoring, diagnosis, and treatment. <i>IEEE Pulse</i> , 2014 , 5, 56-9	0.7	3
42	Autonomic effects of cognitive reappraisal and acceptance in social anxiety: evidence for common and distinct pathways for parasympathetic reactivity. <i>Journal of Anxiety Disorders</i> , 2014 , 28, 795-803	10.9	11
41	Wearable monitoring for mood recognition in bipolar disorder based on history-dependent long-term heart rate variability analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 16.	2 3 -35	99
40	Inhomogeneous point-process entropy: an instantaneous measure of complexity in discrete systems. <i>Physical Review E</i> , 2014 , 89, 052803	2.4	45
39	Tracking instantaneous entropy in heartbeat dynamics through inhomogeneous point-process nonlinear models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 ,	0.9	
38	2014, 6369-72 A pattern recognition approach based on electrodermal response for pathological mood identification in bipolar disorders 2014,		12
37	Maximal-radius multiscale entropy of cardiovascular variability: a promising biomarker of pathological mood states in bipolar disorders. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual	0.9	2
36	International Conference, 2014, 2014, 6663-6 Characterization of behavioral activation in non-pathological subjects through Heart Rate Variability monovariate and multivariate multiscale entropy analysis 2014,		1
35	Electrodermal activity in bipolar patients during affective elicitation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1865-73	7.2	60
34	Temporal trends of neuro-autonomic complexity during severe episodes of bipolar disorders. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014 , 2014, 2948-51	0.9	3
33	Assessing instantaneous QT variability dynamics within a point-process nonlinear framework 2014,		2
32	Electrodermal activity processing: a convex optimization approach. <i>Annual International Conference</i> of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014 , 2014, 2290-3	0.9	15
31	Assessment of gait nonlinear dynamics by inhomogeneous point-process models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 6973-6	0.9	1
30	Decoding underlying brain activities in time and frequency domains through complex independent component analysis of EEG signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International	0.9	

29	Estimation of instantaneous complex dynamics through Lyapunov exponents: a study on heartbeat dynamics. <i>PLoS ONE</i> , 2014 , 9, e105622	3.7	40
28	Instantaneous monitoring of heart beat dynamics during anesthesia and sedation. <i>Journal of Computational Surgery</i> , 2014 , 1,		8
27	Mood states modulate complexity in heartbeat dynamics: A multiscale entropy analysis. <i>Europhysics Letters</i> , 2014 , 107, 18003	1.6	41
26	Experimental Evidences on Healthy Subjects and Bipolar Patients. Series in Bioengineering, 2014 , 85-123	0.7	1
25	Advanced Signal Processing and Modeling for ANS Data. Series in Bioengineering, 2014, 45-82	0.7	
24	Emotions and Mood States: Modeling, Elicitation, and Classification. Series in Bioengineering, 2014 , 9-21	0.7	
23	Introduction to Advances in Autonomic Nervous System Dynamics for Mood and Emotional-State Recognition. <i>Series in Bioengineering</i> , 2014 , 3-8	0.7	1
22	Data Acquisition: Experimental Procedures and Wearable Monitoring Systems. <i>Series in Bioengineering</i> , 2014 , 25-43	0.7	
21	Conclusions and Discussion on Mood and Emotional-State Recognition Using the Autonomic Nervous System Dynamics. <i>Series in Bioengineering</i> , 2014 , 127-138	0.7	
20	Novel Spiking Neuron-Astrocyte Networks based on nonlinear transistor-like models of tripartite synapses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6559-62	0.9	8
19	Improving emotion recognition systems by embedding cardiorespiratory coupling. <i>Physiological Measurement</i> , 2013 , 34, 449-64	2.9	38
18	Eye gaze patterns in emotional pictures. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013 , 4, 705-715	3.7	33
17	Mood recognition in bipolar patients through the PSYCHE platform: preliminary evaluations and perspectives. <i>Artificial Intelligence in Medicine</i> , 2013 , 57, 49-58	7.4	71
16	. IEEE Transactions on Signal Processing, 2013 , 61, 2914-2926	4.8	57
15	Instantaneous nonlinear assessment of complex cardiovascular dynamics by Laguerre-Volterra point process models. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	19
14	A nonlinear heartbeat dynamics model approach for personalized emotion recognition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2579-82	0.9	27
13	. IEEE Transactions on Affective Computing, 2012, 3, 237-249	5.7	132
12	Oscillations of heart rate and respiration synchronize during affective visual stimulation. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 683-90		46

LIST OF PUBLICATIONS

11	Monitoring heartbeat nonlinear dynamics during general anesthesia by using the instantaneous dominant Lyapunov exponent. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	3
10	Instantaneous estimation of high-order nonlinear heartbeat dynamics by Lyapunov exponents. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 13-6	0.9	18
9	A novel EDA glove based on textile-integrated electrodes for affective computing. <i>Medical and Biological Engineering and Computing</i> , 2012 , 50, 1163-72	3.1	41
8	Speech analysis for mood state characterization in bipolar patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2104-7	0.9	39
7	Dominant Lyapunov exponent and approximate entropy in heart rate variability during emotional visual elicitation. <i>Frontiers in Neuroengineering</i> , 2012 , 5, 3		61
6	Using Laguerre expansion within point-process models of heartbeat dynamics: a comparative study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012 , 2012, 29-32	0.9	13
5	Eye tracking and pupil size variation as response to affective stimuli: a preliminary study 2011,		14
4	Motor imagery effectiveness for mirror reversed movements. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2011 , 11, 22-31	3.5	8
3	Daytime naps improve motor imagery learning. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2011 , 11, 541-50	3.5	43
2	Robust multiple cardiac arrhythmia detection through bispectrum analysis. <i>Expert Systems With Applications</i> , 2011 , 38, 6798-6804	7.8	41
1	Towards a smart glove: arousal recognition based on textile Electrodermal Response. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3598-601	0.9	26