

Luca Citi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1774166/publications.pdf>

Version: 2024-02-01

106
papers

3,635
citations

218592

26
h-index

182361

51
g-index

111
all docs

111
docs citations

111
times ranked

3571
citing authors

#	ARTICLE	IF	CITATIONS
1	Walking improves the performance of a brain-computer interface for group decision making. , 2022, , 221-233.		3
2	The NEVERMIND e-health system in the treatment of depressive symptoms among patients with severe somatic conditions: A multicentre, pragmatic randomised controlled trial. EclinicalMedicine, 2022, 48, 101423.	3.2	7
3	The Landscape of the Heritable Cancer Genome. Cancer Research, 2021, 81, 2588-2599.	0.4	13
4	Subject- and task-independent neural correlates and prediction of decision confidence in perceptual decision making. Journal of Neural Engineering, 2021, 18, 046055.	1.8	7
5	Convolutional Autoencoder based Deep Learning Approach for Alzheimer's Disease Diagnosis using Brain MRI. , 2021, , .		6
6	Anytime collaborative brain-computer interfaces for enhancing perceptual group decision-making. Scientific Reports, 2021, 11, 17008.	1.6	8
7	Effect of data leakage in brain MRI classification using 2D convolutional neural networks. Scientific Reports, 2021, 11, 22544.	1.6	40
8	A database of multi-channel intramuscular electromyogram signals during isometric hand muscles contractions. Scientific Data, 2020, 7, 10.	2.4	16
9	Intrinsic Complexity of Sympathetic and Parasympathetic Dynamics from HRV series: a Preliminary Study on Postural Changes. , 2020, 2020, 2577-2580.		0
10	Irregularity Analysis of Sympathetic and Parasympathetic Activity Indices from HRV: A Pilot Study on Postural Changes. , 2020, , .		0
11	3D Convolutional Neural Networks for Diagnosis of Alzheimer's Disease via Structural MRI. , 2020, , .		21
12	Benefits of Multisensory Cues in a Realistic Target Discrimination Task. , 2020, , .		1
13	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. BMC Psychiatry, 2020, 20, 93.	1.1	13
14	Confidence Prediction from EEG Recordings in a Multisensory Environment. , 2020, , .		3
15	Human Chemosignals Modulate Interactions Between Social and Emotional Brain Areas. , 2020, , .		0
16	Target Detection in Video Feeds with Selected Dyads and Groups Assisted by Collaborative Brain-Computer Interfaces. , 2019, , .		6
17	SEEDS, simultaneous recordings of high-density EMG and finger joint angles during multiple hand movements. Scientific Data, 2019, 6, 186.	2.4	19
18	Collaborative Brain-Computer Interfaces to Enhance Group Decisions in an Outpost Surveillance Task. , 2019, 2019, 3099-3102.		8

#	ARTICLE	IF	CITATIONS
19	The PLOS ONE collection on machine learning in health and biomedicine: Towards open code and open data. PLoS ONE, 2019, 14, e0210232.	1.1	27
20	Active learning without unlabeled samples: generating questions and labels using Monte Carlo Tree Search. , 2019, , .		1
21	Parametric Transfer Learning Based on the Fisher Divergence for Well-Being Prediction. , 2019, , .		0
22	Generalization Performance of Deep Learning Models in Neurodegenerative Disease Classification. , 2019, , .		28
23	Hybrid Gaussian Point-Process Model for Finer Control of Myoelectric Robotic Hands. Biosystems and Biorobotics, 2019, , 137-140.	0.2	0
24	ECG-Derived Sympathetic and Parasympathetic Nervous System Dynamics: A Congestive Heart Failure Study. , 2018, , .		7
25	Bayesian Transfer Learning for the Prediction of Self-reported Well-being Scores. , 2018, 2018, 41-44.		3
26	ECG-Derived Sympathetic and Parasympathetic Activity in the Healthy: an Early Lower-Body Negative Pressure Study Using Adaptive Kalman Prediction. , 2018, 2018, 5628-5631.		4
27	Crosstalk Reduction in Epimysial EMG Recordings from Transhumeral Amputees with Principal Component Analysis. , 2018, 2018, 2124-2127.		0
28	Measures of sympathetic and parasympathetic autonomic outflow from heartbeat dynamics. Journal of Applied Physiology, 2018, 125, 19-39.	1.2	75
29	Assessment of Instantaneous Heartbeat Dynamics in amnesic Mild Cognitive Impairment. IFMBE Proceedings, 2018, , 366-369.	0.2	0
30	Complexity Variability Assessment of Nonlinear Time-Varying Cardiovascular Control. Scientific Reports, 2017, 7, 42779.	1.6	44
31	Applications of Heartbeat Complexity Analysis to Depression and Bipolar Disorder. , 2017, , 345-374.		0
32	Time-Varying Cardiovascular Complexity with Focus on Entropy and Lyapunov Exponents. , 2017, , 233-256.		0
33	Arousal and Valence Recognition of Affective Sounds Based on Electrodermal Activity. IEEE Sensors Journal, 2017, 17, 716-725.	2.4	75
34	Self-reported well-being score modelling and prediction: Proof-of-concept of an approach based on linear dynamic systems. , 2017, 2017, 2205-2208.		3
35	Muscle fatigue assessment through electrodermal activity analysis during isometric contraction. , 2017, 2017, 398-401.		4
36	Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardio-Respiratory Nonstationary Dynamics. IEEE Transactions on Biomedical Engineering, 2017, 65, 1-1.	2.5	16

#	ARTICLE	IF	CITATIONS
37	Skin Admittance Measurement for Emotion Recognition: A Study over Frequency Sweep. Electronics (Switzerland), 2016, 5, 46.	1.8	34
38	Disentanglement of sympathetic and parasympathetic activity by instantaneous analysis of human heartbeat dynamics. , 2016, 2016, 932-935.		1
39	Predicting seizures in untreated temporal lobe epilepsy using point-process nonlinear models of heartbeat dynamics. , 2016, 2016, 985-988.		5
40	Real-Time Neural Signals Decoding onto Off-the-Shelf DSP Processors for Neuroprosthetic Applications. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 993-1002.	2.7	14
41	Forceâ€“Velocity Assessment of Caress-Like Stimuli Through the Electrodermal Activity Processing: Advantages of a Convex Optimization Approach. IEEE Transactions on Human-Machine Systems, 2016, , 1-10.	2.5	16
42	Inhomogeneous Point-Processes to Instantaneously Assess Affective Haptic Perception through Heartbeat Dynamics Information. Scientific Reports, 2016, 6, 28567.	1.6	13
43	Assessment of spontaneous cardiovascular oscillations in Parkinson's disease. Biomedical Signal Processing and Control, 2016, 26, 80-89.	3.5	26
44	cvxEDA: a Convex Optimization Approach to Electrodermal Activity Processing. IEEE Transactions on Biomedical Engineering, 2016, 63, 1-1.	2.5	253
45	Prediction of Impaired Performance in Trail Making Test in MCI Patients With Small Vessel Disease Using DTI Data. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1026-1033.	3.9	27
46	Nonlinear digital signal processing in mental health: characterization of major depression using instantaneous entropy measures of heartbeat dynamics. Frontiers in Physiology, 2015, 6, 74.	1.3	21
47	Combining sudomotor nerve impulse estimation with fMRI to investigate the central sympathetic response to nausea. , 2015, 2015, 4683-6.		4
48	Elastic-net constrained multiple kernel learning using a majorization-minimization approach. , 2015, , .		0
49	Instantaneous transfer entropy for the study of cardio-respiratory dynamics. , 2015, 2015, 7885-8.		4
50	A LightWAVE client for semi-automated annotation of Heart Beats from ECG Time Series. , 2015, , .		0
51	Lower instantaneous entropy of heartbeat dynamics during seizures in untreated temporal lobe epilepsy. , 2015, , .		1
52	Characterization of Depressive States in Bipolar Patients Using Wearable Textile Technology and Instantaneous Heart Rate Variability Assessment. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 263-274.	3.9	58
53	Point-process Nonlinear Autonomic Assessment of Depressive States in Bipolar Patients. Methods of Information in Medicine, 2014, 53, 296-302.	0.7	37
54	Tracking instantaneous entropy in heartbeat dynamics through inhomogeneous point-process nonlinear models. , 2014, 2014, 6369-72.		0

#	ARTICLE	IF	CITATIONS
55	Assessing instantaneous QT variability dynamics within a point-process nonlinear framework. , 2014, , .		2
56	Defining an instantaneous complexity measure for heartbeat dynamics: The inhomogeneous point-process entropy. , 2014, , .		0
57	Electrodermal activity processing: A convex optimization approach. , 2014, 2014, 2290-3.		16
58	Assessment of gait nonlinear dynamics by inhomogeneous point-process models. , 2014, 2014, 6973-6.		1
59	Likelihood Methods for Point Processes with Refractoriness. Neural Computation, 2014, 26, 237-263.	1.3	34
60	Assessing real-time RR-QT frequency-domain measures of coupling and causality through inhomogeneous point-process bivariate models. , 2014, 2014, 6475-8.		3
61	Estimation of Instantaneous Complex Dynamics through Lyapunov Exponents: A Study on Heartbeat Dynamics. PLoS ONE, 2014, 9, e105622.	1.1	53
62	Instantaneous monitoring of heart beat dynamics during anesthesia and sedation. Journal of Computational Surgery, 2014, 1, .	0.6	13
63	Dynamical density delay maps: simple, new method for visualising the behaviour of complex systems. BMC Medical Informatics and Decision Making, 2014, 14, 6.	1.5	12
64	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. Science Translational Medicine, 2014, 6, 222ra19.	5.8	805
65	Inhomogeneous point-process entropy: An instantaneous measure of complexity in discrete systems. Physical Review E, 2014, 89, 052803.	0.8	53
66	Revealing Real-Time Emotional Responses: a Personalized Assessment based on Heartbeat Dynamics. Scientific Reports, 2014, 4, 4998.	1.6	169
67	Point-Process Nonlinear Models With Laguerre and Volterra Expansions: Instantaneous Assessment of Heartbeat Dynamics. IEEE Transactions on Signal Processing, 2013, 61, 2914-2926.	3.2	71
68	Instantaneous nonlinear assessment of complex cardiovascular dynamics by laguerre-volterra point process models. , 2013, 2013, 6131-4.		25
69	A nonlinear heartbeat dynamics model approach for personalized emotion recognition. , 2013, 2013, 2579-82.		32
70	An exploration of the effects of audio-visual entrainment on Parkinson's disease tremor. , 2013, , .		2
71	Using Laguerre expansion within point-process models of heartbeat dynamics: A comparative study. , 2012, 2012, 29-32.		14
72	Combined Analysis of Cortical (EEG) and Nerve Stump Signals Improves Robotic Hand Control. Neurorehabilitation and Neural Repair, 2012, 26, 275-281.	1.4	37

#	ARTICLE	IF	CITATIONS
73	Bivariate point process modeling and joint non-stationary analysis of pulse transit time and heart period. , 2012, 2012, 2831-4.		6
74	Monitoring heartbeat nonlinear dynamics during general anesthesia by using the instantaneous dominant Lyapunov exponent. , 2012, 2012, 3124-7.		6
75	Instantaneous estimation of high-order nonlinear heartbeat dynamics by Lyapunov exponents. , 2012, 2012, 13-6.		21
76	A Real-Time Automated Point-Process Method for the Detection and Correction of Erroneous and Ectopic Heartbeats. IEEE Transactions on Biomedical Engineering, 2012, 59, 2828-2837.	2.5	95
77	Buildingâ€™ plant system energy sustainability. An approach for transient thermal performance analysis. Energy and Buildings, 2012, 49, 443-453.	3.1	2
78	Novel Protocols for P300-Based Brainâ€™Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 8-17.	2.7	29
79	Instantaneous monitoring of sleep fragmentation by point process heart rate variability and respiratory dynamics. , 2011, 2011, 7735-8.		6
80	A genetic programming approach to detecting artifact-generating eye movements from EEG in the absence of electro-oculogram. , 2011, , .		1
81	Real-time processing of tflIFE neural signals on embedded DSP platforms: A case study. , 2011, , .		8
82	Instantaneous assessment of autonomic cardiovascular control during general anesthesia. , 2011, 2011, 8444-7.		2
83	Decoding of grasping information from neural signals recorded using peripheral intrafascicular interfaces. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 53.	2.4	89
84	Point-process analysis of neural spiking activity of muscle spindles recorded from thin-film longitudinal intrafascicular electrodes. , 2011, 2011, 2311-4.		2
85	A point process approach for analyzing gait variability dynamics. , 2011, 2011, 1648-51.		2
86	Activities on PNS neural interfaces for the control of hand prostheses. , 2011, 2011, 4637-40.		8
87	Decoding Information From Neural Signals Recorded Using Intra-neural Electrodes: Toward the Development of a Neurocontrolled Hand Prosthesis. Proceedings of the IEEE, 2010, 98, 407-417.	16.4	84
88	Reaction-time binning: A simple method for increasing the resolving power of ERP averages. Psychophysiology, 2010, 47, 467-485.	1.2	34
89	Eigenbrains: The free vibrational modes of the brain as a new representation for EEG. , 2010, 2010, 6011-4.		6
90	Documenting, modelling and exploiting P300 amplitude changes due to variable target delays in Donchin's speller. Journal of Neural Engineering, 2010, 7, 056006.	1.8	51

#	ARTICLE	IF	CITATIONS
91	Double nerve intraneural interface implant on a human amputee for robotic hand control. <i>Clinical Neurophysiology</i> , 2010, 121, 777-783.	0.7	367
92	Exploring multiple protocols for a brain-computer interface mouse. , 2010, 2010, 4189-92.		10
93	High-Significance Averages of Event-Related Potential Via Genetic Programming. <i>Genetic and Evolutionary Computation</i> , 2010, , 135-157.	1.0	1
94	Chapter 15 Matching Brainâ€“Machine Interface Performance to Space Applications. <i>International Review of Neurobiology</i> , 2009, 86, 199-212.	0.9	3
95	Memory with Memory in Genetic Programming. <i>Journal of Artificial Evolution and Applications</i> , 2009, 2009, 1-16.	1.8	14
96	Analogue evolutionary brain computer interfaces [Application Notes. <i>IEEE Computational Intelligence Magazine</i> , 2009, 4, 27-31.	3.4	6
97	Prospects of brainâ€“machine interfaces for space system control. <i>Acta Astronautica</i> , 2009, 64, 448-456.	1.7	27
98	Exploiting P300 amplitude variations can improve classification accuracy in Donchin's BCI speller. , 2009, , .		6
99	Memory with Memory in Tree-Based Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2009, , 25-36.	1.0	3
100	Defining brainâ€“machine interface applications by matching interface performance with device requirements. <i>Journal of Neuroscience Methods</i> , 2008, 167, 91-104.	1.3	70
101	On the use of wavelet denoising and spike sorting techniques to process electroneurographic signals recorded using intraneural electrodes. <i>Journal of Neuroscience Methods</i> , 2008, 172, 294-302.	1.3	105
102	P300-Based BCI Mouse With Genetically-Optimized Analogue Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 51-61.	2.7	134
103	On the Use of Longitudinal Intrafascicular Peripheral Interfaces for the Control of Cybernetic Hand Prostheses in Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 453-472.	2.7	106
104	Inferring the stability of LIFE through Brain Machine Interfaces. , 2008, 2008, 2008-11.		1
105	Recording experience with the thin-film Longitudinal Intra-Fascicular Electrode, a multichannel peripheral nerve interface. , 2007, , .		3
106	Evolutionary Brain Computer Interfaces. , 2007, , 301-310.		5