Slawomir J Nasuto

List of Publications by Year
in descending order

95	2,260	331538	243529
papers	citations	21 h-index	44 g-index

98	98	98	2662
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Can Dynamic Functional Connectivity Be Used toÂDistinguish Between Resting-State andÂMotor Imagery inÂEEG-BCIs?. Studies in Computational Intelligence, 2022, , 688-699.	0.7	1
2	Dynamics of Long-Range Temporal Correlations in Broadband EEG During Different Motor Execution and Imagery Tasks. Frontiers in Neuroscience, 2021, 15, 660032.	1.4	10
3	Personalised, Multi-Modal, Affective State Detection for Hybrid Brain-Computer Music Interfacing. IEEE Transactions on Affective Computing, 2020, 11, 111-124.	5.7	18
4	EEG dynamical network analysis method reveals the neural signature of visual-motor coordination. PLoS ONE, 2020, 15, e0231767.	1.1	7
5	Neural and physiological data from participants listening to affective music. Scientific Data, 2020, 7, 177.	2.4	14
6	Synchronization-based control for a collaborative robot. Royal Society Open Science, 2020, 7, 201267.	1.1	3
7	EEG dynamical network analysis method reveals the neural signature of visual-motor coordination. , 2020, 15, e0231767.		0
8	EEG dynamical network analysis method reveals the neural signature of visual-motor coordination. , 2020, 15, e0231767.		0
9	EEG dynamical network analysis method reveals the neural signature of visual-motor coordination. , 2020, 15, e0231767.		0
10	EEG dynamical network analysis method reveals the neural signature of visual-motor coordination. , 2020, 15, e0231767.		0
11	Electroencephalography reflects the activity of sub-cortical brain regions during approach-withdrawal behaviour while listening to music. Scientific Reports, 2019, 9, 9415.	1.6	36
12	Modeling the Ongoing Dynamics of Short and Long-Range Temporal Correlations in Broadband EEG During Movement. Frontiers in Systems Neuroscience, 2019, 13, 66.	1.2	9
13	Temporal Structure in Haptic Signaling Under a Cooperative Task. Frontiers in Human Neuroscience, 2019, 13, 372.	1.0	4
14	Anticipation in Neurocybernetics. , 2019, , 1-36.		0
15	Anticipation in Neurocybernetics. , 2019, , 249-284.		1
16	Anticipation from sensation: using anticipating synchronization to stabilize a system with inherent sensory delay. Royal Society Open Science, 2018, 5, 171314.	1.1	7
17	KurSL: Model of Anharmonic Coupled Oscillations Based on Kuramoto Coupling and Sturmâ€“Liouville Problem. Advances in Data Science and Adaptive Analysis, 2018, 10, 1840002.	0.2	0
18	Markov Model-Based Method to Analyse Time-Varying Networks in EEG Task-Related Data. Frontiers in Computational Neuroscience, 2018, 12, 76.	1.2	17

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19	Empirical Mode Decomposition and its Extensions Applied to EEG Analysis: A Review. Advances in Data Science and Adaptive Analysis, 2018, 10, 1840001.	0.2	29
20	Exploration of neural correlates of movement intention based on characterisation of temporal dependencies in electroencephalography. PLoS ONE, 2018, 13, e0193722.	1.1	12
21	Affective Calibration of Musical Feature Sets in an Emotionally Intelligent Music Composition System. ACM Transactions on Applied Perception, 2017, 14, 1-13.	1.2	20
22	Inferring structural connectivity using Ising couplings in models of neuronal networks. Scientific Reports, 2017, 7, 8156.	1.6	18
23	Integration of Visual and Joint Information to Enable Linear Reaching Motions. Scientific Reports, 2017, 7, 40869.	1.6	3
24	Design and Development of Non-Contact Bio-Potential Electrodes for Pervasive Health Monitoring Applications. Biosensors, 2017, 7, 2.	2.3	35
25	Directed Motor-Auditory EEG Connectivity Is Modulated by Music Tempo. Frontiers in Human Neuroscience, 2017, 11, 502.	1.0	17
26	Design and Validation of Exoskeleton Actuated by Soft Modules toward Neurorehabilitationâ€"Vision-Based Control for Precise Reaching Motion of Upper Limb. Frontiers in Neuroscience, 2017, 11, 352.	1.4	32
27	Embedded Fuzzy Logic Controller for Positive and Negative Pressure Control in Pneumatic Soft Robots. , 2017, , .		5
28	Implementation of a design concept of a moulded, soft battery cell. , 2016, , .		0
29	Anticipation: Beyond synthetic biology and cognitive robotics. BioSystems, 2016, 148, 22-31.	0.9	23
30	Affective brainâ€"computer music interfacing. Journal of Neural Engineering, 2016, 13, 046022.	1.8	53
31	Movement intention based Brain Computer Interface for Virtual Reality and Soft Robotics rehabilitation using novel autocorrelation analysis of EEG. , 2016, , .		18
32	On the Phase Coupling of Two Components Mixing in Empirical Mode Decomposition. Advances in Data Science and Adaptive Analysis, 2016, 08, 1650004.	0.2	1
33	Renormalized time scale for anticipating and lagging synchronization. Physical Review E, 2016, 93, 052229.	0.8	15
34	Synapses in Digital Medium: Computational Investigations of Neural Basis of Anticipation. Cognitive Systems Monographs, 2016, , 187-201.	0.1	2
35	Anticipatory Engineering: Anticipation in Sensory-Motor Systems of Human. Cognitive Systems Monographs, 2016, , 275-282.	0.1	1
36	Milliseconds Matter: Temporal Order of Visuo-tactile Stimulation Affects the Ownership of a Virtual Hand. Lecture Notes in Computer Science, 2016, , 479-489.	1.0	2

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37	Anticipating Synchronisation for Robot Control. Lecture Notes in Computer Science, 2016, , 424-428.	1.0	0
38	A Compact Low-Cost Electronic Hardware Design for Actuating Soft Robots. , 2015, , .		2
39	Objective Empirical Mode Decomposition metric. , 2015, , .		1
40	Towards human-computer music interaction: Evaluation of an affectively-driven music generator via galvanic skin response measures. , 2015, , .		5
41	Investigating affect in algorithmic composition systems. Psychology of Music, 2015, 43, 831-854.	0.9	28
42	Automated identification of neural correlates of continuous variables. Journal of Neuroscience Methods, 2015, 242, 65-71.	1.3	1
43	Method for exploratory cluster analysis and visualisation of single-trial ERP ensembles. Journal of Neuroscience Methods, 2015, 250, 22-33.	1.3	10
44	Steady state resource allocation analysis of the Stochastic Diffusion Search. Biologically Inspired Cognitive Architectures, 2015, 12, 65-76.	0.9	2
45	Feasibility study on EEG driven robotic system to realize efficient stroke rehabilitation. , 2015, , .		1
46	Investigating Perceived Emotional Correlates of Rhythmic Density in Algorithmic Music Composition. ACM Transactions on Applied Perception, 2015, 12, 1-21.	1.2	8
47	Development of a wearable assistive soft robotic device for elbow rehabilitation. , 2015, , .		37
48	Movement Intention Detection from Autocorrelation of EEG for BCI. Lecture Notes in Computer Science, 2015, , 212-221.	1.0	8
49	Music-induced emotions can be predicted from a combination of brain activity and acoustic features. Brain and Cognition, 2015, 101, 1-11.	0.8	42
50	Zombie Mouse in a Chinese Room. Philosophy and Technology, 2015, 28, 209-223.	2.6	4
51	Changes in music tempo entrain movement related brain activity. , 2014, 2014, 4595-8.		20
52	Investigating music tempo as a feedback mechanism for closed-loop BCI control. Brain-Computer Interfaces, 2014, 1, 158-169.	0.9	6
53	Neural correlates of emotional responses to music: An EEG study. Neuroscience Letters, 2014, 573, 52-57.	1.0	97
54	Exploration of the neural correlates of cerebral palsy for sensorimotor BCI control. Frontiers in Neuroengineering, 2014, 7, 20.	4.8	20

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55	Machine Learning to Identify Neural Correlates of Music and Emotions. , 2014, , 89-103.		1
56	Endogenous cholinergic tone modulates spontaneous network level neuronal activity in primary cortical cultures grown on multi-electrode arrays. BMC Neuroscience, 2013, 14, 38.	0.8	22
57	Of (Zombie) Mice and Animats. Studies in Applied Philosophy, Epistemology and Rational Ethics, 2013, , 85-106.	0.2	2
58	Automated Artifact Removal From the Electroencephalogram. Clinical EEG and Neuroscience, 2013, 44, 291-306.	0.9	55
59	A study of anticipatory non-autonomous systems. , 2013, , .		2
60	Testing for significance of phase synchronisation dynamics in the EEG. Journal of Computational Neuroscience, 2013, 34, 411-432.	0.6	6
61	Foundations of enactive cognitive science. Adaptive Behavior, 2013, 21, 139-141.	1.1	0
62	Learning to Make Feelings: Expressive Performance as a Part of a Machine Learning Tool for Sound-Based Emotion Control. Lecture Notes in Computer Science, 2013, , 490-499.	1.0	0
63	Emergence of a Small-World Functional Network in Cultured Neurons. PLoS Computational Biology, 2012, 8, e1002522.	1.5	132
64	A feasible study of EEG-driven assistive robotic system for stroke rehabilitation. , 2012, , .		9
65	Assessment of inter-examiner agreement and variability in the manual classification of auditory brainstem response. BioMedical Engineering OnLine, 2012, 11, 86.	1.3	5
66	Emotion and Anticipation in an Enactive Framework for Cognition (Response to Andy Clark). Frontiers in Psychology, 2012, 3, 398.	1.1	7
67	Neuromantic â€“ from Semi-Manual to Semi-Automatic Reconstruction of Neuron Morphology. Frontiers in Neuroinformatics, 2012, 6, 4.	1.3	141
68	Brain computer interface control via functional connectivity dynamics. Pattern Recognition, 2012, 45, 2123-2136.	5.1	83
69	Multiscale Evolving Complex Network Model of Functional Connectivity in Neuronal Cultures. IEEE Transactions on Biomedical Engineering, 2012, 59, 30-34.	2.5	12
70	Neural Correlates of True and False Memory in Mild Cognitive Impairment. PLoS ONE, 2012, 7, e48357.	1.1	20
71	Revealing Ensemble State Transition Patterns in Multi-Electrode Neuronal Recordings Using Hidden Markov Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 345-355.	2.7	16
72	Spatio-temporal dependencies in functional connectivity in rodent cortical cultures. Paladyn, 2011, 2, .	1.9	0

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73	Single tap identification for fast BCI control. Cognitive Neurodynamics, 2011, 5, 21-30.	2.3	17
74	Experiments with an In-Vitro Robot Brain. Lecture Notes in Computer Science, 2011, , 1-15.	1.0	14
75	Single trial BCI operation via Wackermann parameters. , 2010, , .		0
76	Investigation of spatio-temporal dependencies in neuronal functional connectivity. , 2010, , .		2
77	Application of Poisson-based hidden Markov models to in vitro neuronal data. , 2010, , .		0
78	Controlling a Mobile Robot with a Biological Brain. Defence Science Journal, 2010, 60, 5-14.	0.5	61
79	Communicating neurons: A connectionist spiking neuron implementation of stochastic diffusion search. Neurocomputing, 2009, 72, 704-712.	3.5	6
80	Detection of neural correlates of self-paced motor activity using empirical mode decomposition phase locking analysis. Journal of Neuroscience Methods, 2009, 184, 54-70.	1.3	28
81	Architecture for Neuronal Cell Control of a Mobile Robot. , 2008, , 23-31.		16
82	Extraction of motor unit action potentials from electromyographic signals through generative topographic mapping. Journal of the Franklin Institute, 2007, 344, 154-179.	1.9	15
83	A novel approach to the detection of synchronisation in EEG based on empirical mode decomposition. Journal of Computational Neuroscience, 2007, 23, 79-111.	0.6	149
84	Search space pruning and global optimisation of multiple gravity assist spacecraft trajectories. Journal of Global Optimization, 2007, 38, 283-296.	1.1	90
85	Historical and current machine intelligence. IEEE Instrumentation and Measurement Magazine, 2006, 9, 20-26.	1.2	8
86	EMG signal filtering based on Empirical Mode Decomposition. Biomedical Signal Processing and Control, 2006, 1, 44-55.	3.5	149
87	Empirical mode decomposition: a novel technique for the study of tremor time series. Medical and Biological Engineering and Computing, 2006, 44, 569-582.	1.6	85
88	Generative topographic mapping applied to clustering and visualization of motor unit action potentials. BioSystems, 2005, 82, 273-284.	0.9	20
89	An Efficient Parameterization of Dynamic Neural Networks for Nonlinear System Identification. IEEE Transactions on Neural Networks, 2005, 16, 983-988.	4.8	23
90	Effects of dendritic morphology on CA3 pyramidal cell electrophysiology: a simulation study. Brain Research, 2002, 941, 11-28.	1.1	140

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91	Computer generation and quantitative morphometric analysis of virtual neurons. Anatomy and Embryology, 2001, 204, 283-301.	1.5	86
92	Relation between neuronal morphology and electrophysiology in the Kainate lesion model of Alzheimer's Disease. Neurocomputing, 2001, 38-40, 1477-1487.	3.5	13
93	Generation, description and storage of dendritic morphology data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1131-1145.	1.8	110
94	A Compact Low-Cost Electronic Hardware Design for Actuating Soft Robots. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	2
95	Deep brain stimulation of the ventrointermediate nucleus of the thalamus to treat essential tremor improves motor sequence learning. Human Brain Mapping, 0, , .	1.9	3