## Basabdatta Sen-Bhattacharya

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/37850/publications.pdf

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40 428 9 19 papers citations h-index 42 42 430

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	In silico Effects of Synaptic Connections in the Visual Thalamocortical Pathway. Frontiers in Medical Technology, 2022, 4, 856412.	1.3	1
2	Foveal-pit inspired filtering of DVS spike response., 2021,,.		1
3	is supported by the Science and Engineering Research Board of India (SERB) Core Research Grant CRG/2019/003534, BITS Pilani Institutional Research Grants GOA/ACG/2019-20/Oct/02 and BPGC/RIG/2018-19. TSG is supported by EU grant PCI2019-111826-2 "APROVIS3Dâ€, by Spanish grant from Ministry of Science and Innovation PID2019-105556GB-C31 "NANOMIND―(with support from the) Ti ETOc	the 110.784	1 -314 rgBT /0
4	A Reduced-Scale Cortical Network with Izhikevich's Neurons on SpiNNaker., 2021, , .		1
5	Quantifying Synchronization in a Biologically Inspired Neural Network. , 2021, , .		0
6	Phase Entrainment by Periodic Stimuli In Silico: A Quantitative Study. Neurocomputing, 2021, 469, 273-273.	3.5	2
7	The State of Play in Diversity and Inclusion in STEM–A Review of Empirical Evidence, Focusing on Gender. IFAC-PapersOnLine, 2021, 54, 570-575.	0.5	7
8	Sleep Stage Classification using NeuCube on SpiNNaker: a Preliminary Study. , 2020, , .		3
9	Implementing a foveal-pit inspired filter in a Spiking Convolutional Neural Network: a preliminary study. , 2020, , .		2
10	Linking Brainstem Cholinergic Input to Thalamocortical Circuitry. Advances in Intelligent Systems and Computing, 2019, , 375-386.	0.5	1
11	Building a Spiking Neural Network Model of the Basal Ganglia on SpiNNaker. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 823-836.	2.6	24
12	Interpretable Fuzzy Rule-Based Systems for Classification of Multi-class EEG Data., 2018,,.		1
13	Profiling a Many-core Neuromorphic Platform. , 2017, , .		1
14	A Spiking Neural Network Model of the Lateral Geniculate Nucleus on the SpiNNaker Machine. Frontiers in Neuroscience, 2017, 11, 454.	1.4	9
15	A Neural Mass Computational Framework to Study Synaptic Mechanisms Underlying Alpha and Theta Rhythms. Springer Series in Bio-/neuroinformatics, 2017, , 405-427.	0.1	3
16	Causal Role of Thalamic Interneurons in Brain State Transitions: A Study Using a Neural Mass Model Implementing Synaptic Kinetics. Frontiers in Computational Neuroscience, 2016, 10, 115.	1.2	15
17	Nonlinear Origin of SSVEP Spectra—A Combined Experimental and Modeling Study. Frontiers in Computational Neuroscience, 2016, 10, 129.	1.2	62
18	Introduction to special issue on  Recent Computing Paradigms, Network Protocols, and Applications'. Innovations in Systems and Software Engineering, 2016, 12, 161-162.	1.6	0

#	Article	IF	Citations
19	A Robust Evolutionary Optimisation Approach for Parameterising a Neural Mass Model. Lecture Notes in Computer Science, 2016, , 225-234.	1.0	O
20	Data-point and feature selection of motor imagery EEG signals for neural classification of cognitive tasks in car-driving. , $2015, \ldots$		2
21	EEG classification to determine the degree of pleasure levels in touch-perception of human subjects., 2015,,.		9
22	Adaptive Parameterized AdaBoost Algorithm with application in EEG Motor Imagery Classification. , 2015, , .		1
23	EEG source localization by memory network analysis of subjects engaged in perceiving emotions from facial expressions. , 2015, , .		7
24	Engineering a thalamo-cortico-thalamic circuit on SpiNNaker: a preliminary study toward modeling sleep and wakefulness. Frontiers in Neural Circuits, 2014, 8, 46.	1.4	7
25	Studying the effects of thalamic interneurons in a thalamocortical neural mass model. BMC Neuroscience, 2014, 15, .	0.8	4
26	Neural Circuit Models and Neuropathological Oscillations. , 2014, , 673-702.		3
27	Spectral and Non-linear Analysis of Thalamocortical Neural Mass Model Oscillatory Dynamics. , 2014, , 87-112.		4
28	Combined study of time-series bifurcation and power spectral behaviour of a thalamo-cortico-thalamic neural mass model. BMC Neuroscience, 2013, 14, .	0.8	0
29	Model-based bifurcation and power spectral analyses of thalamocortical alpha rhythm slowing in Alzheimer's Disease. Neurocomputing, 2013, 115, 11-22.	3.5	33
30	Implementing the cellular mechanisms of synaptic transmission in a neural mass model of the thalamo-cortical circuitry. Frontiers in Computational Neuroscience, 2013, 7, 81.	1.2	10
31	Assessing retino-geniculo-cortical connectivities in Alzheimer's Disease with a neural mass model. , $2011, \ldots$		3
32	A thalamo–cortico–thalamic neural mass model to study alpha rhythms in Alzheimer's disease. Neural Networks, 2011, 24, 631-645.	3.3	105
33	Alpha and Theta Rhythm Abnormality in Alzheimer's Disease: A Study Using a Computational Model. Advances in Experimental Medicine and Biology, 2011, 718, 57-73.	0.8	48
34	Using a virtual cortical module implementing a neural field model to modulate brain rhythms in Parkinson's disease. Frontiers in Neuroscience, 2010, 4, .	1.4	13
35	Intra- and inter-connectivity influences on event related changes in thalamocortical alpha rhythms. , 2010, , .		2
36	Past, Present and Future of Brain Stimulation. Mathematical Modelling of Natural Phenomena, 2010, 5, 185-207.	0.9	9

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37	Biologically Inspired Means for Rank-Order Encoding Images: A Quantitative Analysis. IEEE Transactions on Neural Networks, 2010, 21, 1087-1099.	4.8	12
38	Thalamocortical circuitry and alpha rhythm slowing: An empirical study based on a classic computational model. , $2010$ , , .		7
39	Evaluating rank-order code performance using a biologically-derived retinal model. , 2009, , .		4
40	A biologically inspired algorithm to deal with filter-overlap in retinal models. BMC Neuroscience, 2009, 10, .	0.8	3