

Biswa Sengupta

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,399
citations

448610

19
h-index

651938

25
g-index

25
all docs

25
docs citations

25
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Dynamics under Active Inference: Plausibility and Efficiency of Information Processing. <i>Entropy</i> , 2021, 23, 454.	1.1	22
2	Pillar Networks: Combining parametric with non-parametric methods for action recognition. <i>Robotics and Autonomous Systems</i> , 2019, 118, 47-54.	3.0	2
3	Hemispheric brain asymmetry differences in youths with attention-deficit/hyperactivity disorder. <i>NeuroImage: Clinical</i> , 2018, 18, 744-752.	1.4	35
4	Gauge Fields in the Central Nervous System. <i>Springer Series in Cognitive and Neural Systems</i> , 2017, , 193-212.	0.1	7
5	Editorial: Self-Organization in the Nervous System. <i>Frontiers in Systems Neuroscience</i> , 2017, 11, 69.	1.2	8
6	Towards a Neuronal Gauge Theory. <i>PLoS Biology</i> , 2016, 14, e1002400.	2.6	86
7	Annealed Importance Sampling for Neural Mass Models. <i>PLoS Computational Biology</i> , 2016, 12, e1004797.	1.5	13
8	Gradient-based MCMC samplers for dynamic causal modelling. <i>NeuroImage</i> , 2016, 125, 1107-1118.	2.1	43
9	mpdcm: A toolbox for massively parallel dynamic causal modeling. <i>Journal of Neuroscience Methods</i> , 2016, 257, 7-16.	1.3	35
10	Dynamic causal modelling of electrographic seizure activity using Bayesian belief updating. <i>NeuroImage</i> , 2016, 125, 1142-1154.	2.1	41
11	Characterising seizures in anti-NMDA-receptor encephalitis with dynamic causal modelling. <i>NeuroImage</i> , 2015, 118, 508-519.	2.1	39
12	Gradient-free MCMC methods for dynamic causal modelling. <i>NeuroImage</i> , 2015, 112, 375-381.	2.1	38
13	Knowing one's place: a free-energy approach to pattern regulation. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141383.	1.5	153
14	Consequences of Converting Graded to Action Potentials upon Neural Information Coding and Energy Efficiency. <i>PLoS Computational Biology</i> , 2014, 10, e1003439.	1.5	41
15	Ten Simple Rules for Effective Computational Research. <i>PLoS Computational Biology</i> , 2014, 10, e1003506.	1.5	47
16	Power Consumption During Neuronal Computation. <i>Proceedings of the IEEE</i> , 2014, 102, 738-750.	16.4	65
17	Cognitive Dynamics: From Attractors to Active Inference. <i>Proceedings of the IEEE</i> , 2014, 102, 427-445.	16.4	66
18	Efficient gradient computation for dynamical models. <i>NeuroImage</i> , 2014, 98, 521-527.	2.1	48

#	ARTICLE	IF	CITATIONS
19	A naturally occurring amino acid substitution in the voltage-dependent sodium channel selectivity filter affects channel gating. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 829-842.	0.7	5
20	Balanced Excitatory and Inhibitory Synaptic Currents Promote Efficient Coding and Metabolic Efficiency. <i>PLoS Computational Biology</i> , 2013, 9, e1003263.	1.5	77
21	Information and Efficiency in the Nervous System—A Synthesis. <i>PLoS Computational Biology</i> , 2013, 9, e1003157.	1.5	163
22	The Effect of Cell Size and Channel Density on Neuronal Information Encoding and Energy Efficiency. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1465-1473.	2.4	80
23	Functional analysis of ultra high information rates conveyed by rat vibrissal primary afferents. <i>Frontiers in Neural Circuits</i> , 2013, 7, 190.	1.4	35
24	Comparison of Langevin and Markov channel noise models for neuronal signal generation. <i>Physical Review E</i> , 2010, 81, 011918.	0.8	34
25	Action Potential Energy Efficiency Varies Among Neuron Types in Vertebrates and Invertebrates. <i>PLoS Computational Biology</i> , 2010, 6, e1000840.	1.5	216