

Biswa Sengupta

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,399
citations

394390
19
h-index

580810
25
g-index

25
all docs

25
docs citations

25
times ranked

1585
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Dynamics under Active Inference: Plausibility and Efficiency of Information Processing. Entropy, 2021, 23, 454.	2.2	22
2	Pillar Networks: Combining parametric with non-parametric methods for action recognition. Robotics and Autonomous Systems, 2019, 118, 47-54.	5.1	2
3	Hemispheric brain asymmetry differences in youths with attention-deficit/hyperactivity disorder. Neurolmage: Clinical, 2018, 18, 744-752.	2.7	35
4	Gauge Fields in the Central Nervous System. Springer Series in Cognitive and Neural Systems, 2017, , 193-212.	0.1	7
5	Editorial: Self-Organization in the Nervous System. Frontiers in Systems Neuroscience, 2017, 11, 69.	2.5	8
6	Towards a Neuronal Gauge Theory. PLoS Biology, 2016, 14, e1002400.	5.6	86
7	Annealed Importance Sampling for Neural Mass Models. PLoS Computational Biology, 2016, 12, e1004797.	3.2	13
8	Gradient-based MCMC samplers for dynamic causal modelling. Neurolmage, 2016, 125, 1107-1118.	4.2	43
9	mpdcm: A toolbox for massively parallel dynamic causal modeling. Journal of Neuroscience Methods, 2016, 257, 7-16.	2.5	35
10	Dynamic causal modelling of electrographic seizure activity using Bayesian belief updating. Neurolmage, 2016, 125, 1142-1154.	4.2	41
11	Characterising seizures in anti-NMDA-receptor encephalitis with dynamic causal modelling. Neurolmage, 2015, 118, 508-519.	4.2	39
12	Gradient-free MCMC methods for dynamic causal modelling. Neurolmage, 2015, 112, 375-381.	4.2	38
13	Knowing one's place: a free-energy approach to pattern regulation. Journal of the Royal Society Interface, 2015, 12, 20141383.	3.4	153
14	Consequences of Converting Graded to Action Potentials upon Neural Information Coding and Energy Efficiency. PLoS Computational Biology, 2014, 10, e1003439.	3.2	41
15	Ten Simple Rules for Effective Computational Research. PLoS Computational Biology, 2014, 10, e1003506.	3.2	47
16	Power Consumption During Neuronal Computation. Proceedings of the IEEE, 2014, 102, 738-750.	21.3	65
17	Cognitive Dynamics: From Attractors to Active Inference. Proceedings of the IEEE, 2014, 102, 427-445.	21.3	66
18	Efficient gradient computation for dynamical models. Neurolmage, 2014, 98, 521-527.	4.2	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.	1.6	5
20	Balanced Excitatory and Inhibitory Synaptic Currents Promote Efficient Coding and Metabolic Efficiency. <i>PLoS Computational Biology</i> , 2013, 9, e1003263.	3.2	77
21	Information and Efficiency in the Nervous System—A Synthesis. <i>PLoS Computational Biology</i> , 2013, 9, e1003157.	3.2	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.	4.3	80
23	Functional analysis of ultra high information rates conveyed by rat vibrissal primary afferents. <i>Frontiers in Neural Circuits</i> , 2013, 7, 190.	2.8	35
24	Comparison of Langevin and Markov channel noise models for neuronal signal generation. <i>Physical Review E</i> , 2010, 81, 011918.	2.1	34
25	Action Potential Energy Efficiency Varies Among Neuron Types in Vertebrates and Invertebrates. <i>PLoS Computational Biology</i> , 2010, 6, e1000840.	3.2	216