

Christopher L Buckley

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

820
citations

567144

15
h-index

552653

26
g-index

37
all docs

37
docs citations

37
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	How particular is the physics of the free energy principle?. <i>Physics of Life Reviews</i> , 2022, 40, 24-50.	1.5	44
2	Simulating homeostatic, allostatic and goal-directed forms of interoceptive control using active inference. <i>Biological Psychology</i> , 2022, 169, 108266.	1.1	34
3	Predictive Coding Approximates Backprop Along Arbitrary Computation Graphs. <i>Neural Computation</i> , 2022, 34, 1329-1368.	1.3	23
4	SPIM Toolset: A software platform for selective plane illumination microscopy. <i>Journal of Neuroscience Methods</i> , 2021, 347, 108952.	1.3	5
5	Whence the Expected Free Energy?. <i>Neural Computation</i> , 2021, 33, 447-482.	1.3	30
6	Curious Inferences: Reply to Sun and Firestone on the Dark Room Problem. <i>Trends in Cognitive Sciences</i> , 2020, 24, 681-683.	4.0	12
7	Scaling Active Inference. , 2020, , .		24
8	Learning action-oriented models through active inference. <i>PLoS Computational Biology</i> , 2020, 16, e1007805.	1.5	64
9	On the Relationship Between Active Inference and Control as Inference. <i>Communications in Computer and Information Science</i> , 2020, , 3-11.	0.4	26
10	Learning action-oriented models through active inference. , 2020, 16, e1007805.		0
11	Learning action-oriented models through active inference. , 2020, 16, e1007805.		0
12	Learning action-oriented models through active inference. , 2020, 16, e1007805.		0
13	Learning action-oriented models through active inference. , 2020, 16, e1007805.		0
14	PID Control as a Process of Active Inference with Linear Generative Models. <i>Entropy</i> , 2019, 21, 257.	1.1	39
15	Nonmodular Architectures of Cognitive Systems based on Active Inference. , 2019, , .		4
16	Generative models as parsimonious descriptions of sensorimotor loops. <i>Behavioral and Brain Sciences</i> , 2019, 42, e218.	0.4	14
17	A theory of how active behavior stabilises neural activity: Neural gain modulation by closed-loop environmental feedback. <i>PLoS Computational Biology</i> , 2018, 14, e1005926.	1.5	21
18	A Probabilistic Interpretation of PID Controllers Using Active Inference. <i>Lecture Notes in Computer Science</i> , 2018, , 15-26.	1.0	9

#	ARTICLE	IF	CITATIONS
19	The free energy principle for action and perception: A mathematical review. <i>Journal of Mathematical Psychology</i> , 2017, 81, 55-79.	1.0	214
20	An active inference implementation of phototaxis. , 2017, , .		23
21	Evolutionary Connectionism: Algorithmic Principles Underlying the Evolution of Biological Organisation in Evo-Devo, Evo-Eco and Evolutionary Transitions. <i>Evolutionary Biology</i> , 2016, 43, 553-581.	0.5	58
22	Transient dynamics between displaced fixed points: An alternate nonlinear dynamical framework for olfaction. <i>Brain Research</i> , 2012, 1434, 62-72.	1.1	4
23	Multi-Neuronal Refractory Period Adapts Centrally Generated Behaviour to Reward. <i>PLoS ONE</i> , 2012, 7, e42493.	1.1	7
24	Competition-Based Model of Pheromone Component Ratio Detection in the Moth. <i>PLoS ONE</i> , 2011, 6, e16308.	1.1	20
25	“If You Can't Be With the One You Love, Love the One You're With”: How Individual Habituation of Agent Interactions Improves Global Utility. <i>Artificial Life</i> , 2011, 17, 167-181.	1.0	19
26	Multiscale Model of an Inhibitory Network Shows Optimal Properties near Bifurcation. <i>Physical Review Letters</i> , 2011, 106, 238109.	2.9	24
27	Global Adaptation in Networks of Selfish Components: Emergent Associative Memory at the System Scale. <i>Artificial Life</i> , 2011, 17, 147-166.	1.0	34
28	Spatial, temporal, and modulatory factors affecting GasNet evolvability in a visually guided robotics task. <i>Complexity</i> , 2010, 16, 35-44.	0.9	18
29	Spatially embedded dynamics and complexity. <i>Complexity</i> , 2010, 16, 29-34.	0.9	2
30	Embracing the tyranny of distance: space as an enabling constraint. <i>Technoetic Arts</i> , 2009, 7, 141-152.	0.0	6
31	Sensitivity and stability: A signal propagation sweet spot in a sheet of recurrent centre crossing neurons. <i>BioSystems</i> , 2008, 94, 2-9.	0.9	3
32	Monostable Controllers for Adaptive Behaviour. <i>Lecture Notes in Computer Science</i> , 2008, , 103-112.	1.0	9