

List of Publications by Year in descending order

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64
papers

3,504
citations

182225

30
h-index

190340

53
g-index

75
all docs

75
docs citations

75
times ranked

1490
citing authors

#	ARTICLE	IF	CITATIONS
1	Everything is connected: Inference and attractors in delusions. Schizophrenia Research, 2022, 245, 5-22.	1.1	36
2	The evolution of brain architectures for predictive coding and active inference. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200531.	1.8	23
3	Active Inference, Bayesian Optimal Design, and Expected Utility. , 2022, , 124-146.		2
4	Active listening. Hearing Research, 2021, 399, 107998.	0.9	37
5	Deeply Felt Affect: The Emergence of Valence in Deep Active Inference. Neural Computation, 2021, 33, 398-446.	1.3	94
6	Parcels and particles: Markov blankets in the brain. Network Neuroscience, 2021, 5, 211-251.	1.4	48
7	The computational neurology of movement under active inference. Brain, 2021, 144, 1799-1818.	3.7	27
8	Sophisticated Inference. Neural Computation, 2021, 33, 713-763.	1.3	65
9	Active Inference: Demystified and Compared. Neural Computation, 2021, 33, 674-712.	1.3	77
10	Neural Dynamics under Active Inference: Plausibility and Efficiency of Information Processing. Entropy, 2021, 23, 454.	1.1	22
11	Generative Models for Active Vision. Frontiers in Neurorobotics, 2021, 15, 651432.	1.6	17
12	Immunoceptive inference: why are psychiatric disorders and immune responses intertwined?. Biology and Philosophy, 2021, 36, 27.	0.7	15
13	Markov blankets in the brain. Neuroscience and Biobehavioral Reviews, 2021, 125, 88-97.	2.9	29
14	Some Interesting Observations on the Free Energy Principle. Entropy, 2021, 23, 1076.	1.1	24
15	Contextual perception under active inference. Scientific Reports, 2021, 11, 16223.	1.6	5
16	Memory and Markov Blankets. Entropy, 2021, 23, 1105.	1.1	12
17	Active inference, selective attention, and the cocktail party problem. Neuroscience and Biobehavioral Reviews, 2021, 131, 1288-1304.	2.9	6
18	Understanding, Explanation, and Active Inference. Frontiers in Systems Neuroscience, 2021, 15, 772641.	1.2	10

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19	Active Inference and Auditory Hallucinations. <i>Computational Psychiatry</i> , 2020, 2, 183.	1.1	45
20	A Bayesian Account of Psychopathy: A Model of Lacks Remorse and Self-Aggrandizing. <i>Computational Psychiatry</i> , 2020, 2, 92.	1.1	9
21	Prefrontal Computation as Active Inference. <i>Cerebral Cortex</i> , 2020, 30, 682-695.	1.6	38
22	Active inference, stressors, and psychological trauma: A neuroethological model of (mal)adaptive explore-exploit dynamics in ecological context. <i>Behavioural Brain Research</i> , 2020, 380, 112421.	1.2	33
23	On Markov blankets and hierarchical self-organisation. <i>Journal of Theoretical Biology</i> , 2020, 486, 110089.	0.8	63
24	Generative models, linguistic communication and active inference. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 118, 42-64.	2.9	55
25	Modules or Mean-Fields?. <i>Entropy</i> , 2020, 22, 552.	1.1	34
26	Active inference on discrete state-spaces: A synthesis. <i>Journal of Mathematical Psychology</i> , 2020, 99, 102447.	1.0	119
27	A Bayesian Account of Generalist and Specialist Formation Under the Active Inference Framework. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 69.	2.0	5
28	An Active Inference Approach to Modeling Structure Learning: Concept Learning as an Example Case. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 41.	1.2	46
29	Inferring What to Do (And What Not to). <i>Entropy</i> , 2020, 22, 536.	1.1	5
30	Degeneracy and Redundancy in Active Inference. <i>Cerebral Cortex</i> , 2020, 30, 5750-5766.	1.6	31
31	Markov blankets, information geometry and stochastic thermodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190159.	1.6	84
32	An Investigation of the Free Energy Principle for Emotion Recognition. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 30.	1.2	30
33	Choosing a Markov blanket. <i>Behavioral and Brain Sciences</i> , 2020, 43, e112.	0.4	5
34	Paradoxical lesions, plasticity and active inference. <i>Brain Communications</i> , 2020, 2, fcaa164.	1.5	11
35	Deep Active Inference and Scene Construction. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 509354.	2.0	12
36	The computational pharmacology of oculomotion. <i>Psychopharmacology</i> , 2019, 236, 2473-2484.	1.5	12

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37	With an eye on uncertainty: Modelling pupillary responses to environmental volatility. PLoS Computational Biology, 2019, 15, e1007126.	1.5	27
38	Bayesian Filtering with Multiple Internal Models: Toward a Theory of Social Intelligence. Neural Computation, 2019, 31, 2390-2431.	1.3	25
39	Generalised free energy and active inference. Biological Cybernetics, 2019, 113, 495-513.	0.6	105
40	Perceptual awareness and active inference. Neuroscience of Consciousness, 2019, 2019, niz012.	1.4	55
41	Introducing a Bayesian model of selective attention based on active inference. Scientific Reports, 2019, 9, 13915.	1.6	43
42	Neurocomputational mechanisms underlying emotional awareness: Insights afforded by deep active inference and their potential clinical relevance. Neuroscience and Biobehavioral Reviews, 2019, 107, 473-491.	2.9	60
43	The emergence of synchrony in networks of mutually inferring neurons. Scientific Reports, 2019, 9, 6412.	1.6	35
44	Dynamic Causal Modelling of Active Vision. Journal of Neuroscience, 2019, 39, 6265-6275.	1.7	15
45	Neuronal message passing using Mean-field, Bethe, and Marginal approximations. Scientific Reports, 2019, 9, 1889.	1.6	88
46	Passive motion and active inference. Physics of Life Reviews, 2019, 30, 112-115.	1.5	4
47	Simulating Emotions: An Active Inference Model of Emotional State Inference and Emotion Concept Learning. Frontiers in Psychology, 2019, 10, 2844.	1.1	73
48	Impulsivity and Active Inference. Journal of Cognitive Neuroscience, 2019, 31, 202-220.	1.1	11
49	Attention or salience?. Current Opinion in Psychology, 2019, 29, 1-5.	2.5	93
50	Active inference and the anatomy of oculomotion. Neuropsychologia, 2018, 111, 334-343.	0.7	32
51	The Computational Anatomy of Visual Neglect. Cerebral Cortex, 2018, 28, 777-790.	1.6	41
52	The Markov blankets of life: autonomy, active inference and the free energy principle. Journal of the Royal Society Interface, 2018, 15, 20170792.	1.5	241
53	The Anatomy of Inference: Generative Models and Brain Structure. Frontiers in Computational Neuroscience, 2018, 12, 90.	1.2	126
54	Precision and False Perceptual Inference. Frontiers in Integrative Neuroscience, 2018, 12, 39.	1.0	50

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55	Free-energy minimization in joint agent-environment systems: A niche construction perspective. <i>Journal of Theoretical Biology</i> , 2018, 455, 161-178.	0.8	71
56	Computational Neuropsychology and Bayesian Inference. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 61.	1.0	104
57	Active Inference, Novelty and Neglect. <i>Current Topics in Behavioral Neurosciences</i> , 2018, 41, 115-128.	0.8	7
58	The Discrete and Continuous Brain: From Decisions to Movementâ€”And Back Again. <i>Neural Computation</i> , 2018, 30, 2319-2347.	1.3	43
59	Deep temporal models and active inference. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 77, 388-402.	2.9	159
60	The graphical brain: Belief propagation and active inference. <i>Network Neuroscience</i> , 2017, 1, 381-414.	1.4	260
61	The active construction of the visual world. <i>Neuropsychologia</i> , 2017, 104, 92-101.	0.7	75
62	Uncertainty, epistemics and active inference. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170376.	1.5	150
63	Working memory, attention, and salience in active inference. <i>Scientific Reports</i> , 2017, 7, 14678.	1.6	148
64	The Predictive Brain Must Have a Limitation in Short-Term Memory Capacity. <i>Current Directions in Psychological Science</i> , 0, , 096372142110299.	2.8	9