

Thomas Parr

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,172
citations

26
h-index

43
g-index

99
ext. papers

3,006
ext. citations

4.1
avg, IF

6.28
L-index

#	Paper	IF	Citations
93	The graphical brain: Belief propagation and active inference. <i>Network Neuroscience</i> , 2017 , 1, 381-414	5.6	163
92	The Markov blankets of life: autonomy, active inference and the free energy principle. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	141
91	Working memory, attention, and salience in active inference. <i>Scientific Reports</i> , 2017 , 7, 14678	4.9	105
90	Deep temporal models and active inference. <i>Neuroscience and Biobehavioral Reviews</i> , 2017 , 77, 388-402	9	98
89	Uncertainty, epistemics and active inference. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	98
88	The Anatomy of Inference: Generative Models and Brain Structure. <i>Frontiers in Computational Neuroscience</i> , 2018 , 12, 90	3.5	78
87	Active inference on discrete state-spaces: A synthesis. <i>Journal of Mathematical Psychology</i> , 2020 , 99, 102447	1.2	67
86	Computational Neuropsychology and Bayesian Inference. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 61	3.3	66
85	Generalised free energy and active inference. <i>Biological Cybernetics</i> , 2019 , 113, 495-513	2.8	63
84	Neuronal message passing using Mean-field, Bethe, and Marginal approximations. <i>Scientific Reports</i> , 2019 , 9, 1889	4.9	60
83	Markov blankets, information geometry and stochastic thermodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190159	3	59
82	Free-energy minimization in joint agent-environment systems: A niche construction perspective. <i>Journal of Theoretical Biology</i> , 2018 , 455, 161-178	2.3	53
81	The active construction of the visual world. <i>Neuropsychologia</i> , 2017 , 104, 92-101	3.2	52
80	Attention or salience?. <i>Current Opinion in Psychology</i> , 2019 , 29, 1-5	6.2	47
79	Deeply Felt Affect: The Emergence of Valence in Deep Active Inference. <i>Neural Computation</i> , 2021 , 33, 398-446	2.9	40
78	Neurocomputational mechanisms underlying emotional awareness: Insights afforded by deep active inference and their potential clinical relevance. <i>Neuroscience and Biobehavioral Reviews</i> , 2019 , 107, 473-491	9	39
77	In the Body's Eye: The Computational Anatomy of Interoceptive Inference		39

76	On Markov blankets and hierarchical self-organisation. <i>Journal of Theoretical Biology</i> , 2020 , 486, 110089	2.3	37
75	Simulating Emotions: An Active Inference Model of Emotional State Inference and Emotion Concept Learning. <i>Frontiers in Psychology</i> , 2019 , 10, 2844	3.4	35
74	Active Inference: Demystified and Compared. <i>Neural Computation</i> , 2021 , 33, 674-712	2.9	33
73	The Computational Anatomy of Visual Neglect. <i>Cerebral Cortex</i> , 2018 , 28, 777-790	5.1	31
72	Sophisticated Inference. <i>Neural Computation</i> , 2021 , 33, 713-763	2.9	30
71	Precision and False Perceptual Inference. <i>Frontiers in Integrative Neuroscience</i> , 2018 , 12, 39	3.2	28
70	The Discrete and Continuous Brain: From Decisions to Movement-And Back Again. <i>Neural Computation</i> , 2018 , 30, 2319-2347	2.9	27
69	Perceptual awareness and active inference. <i>Neuroscience of Consciousness</i> , 2019 , 2019, niz012	3.3	26
68	Active Inference and Auditory Hallucinations. <i>Computational Psychiatry</i> , 2018 , 2, 183-204	3.8	25
67	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020 , 5, 89	4.8	23
66	Active inference and the anatomy of oculomotion. <i>Neuropsychologia</i> , 2018 , 111, 334-343	3.2	22
65	Dynamic causal modelling of COVID-19. <i>Wellcome Open Research</i> , 2020 , 5, 89	4.8	22
64	Prefrontal Computation as Active Inference. <i>Cerebral Cortex</i> , 2020 , 30, 682-695	5.1	22
63	Second waves, social distancing, and the spread of COVID-19 across America. <i>Wellcome Open Research</i> , 2020 , 5, 103	4.8	21
62	Introducing a Bayesian model of selective attention based on active inference. <i>Scientific Reports</i> , 2019 , 9, 13915	4.9	20
61	An Active Inference Approach to Modeling Structure Learning: Concept Learning as an Example Case. <i>Frontiers in Computational Neuroscience</i> , 2020 , 14, 41	3.5	20
60	Generative models, linguistic communication and active inference. <i>Neuroscience and Biobehavioral Reviews</i> , 2020 , 118, 42-64	9	20
59	Parcels and particles: Markov blankets in the brain. <i>Network Neuroscience</i> , 2021 , 5, 211-251	5.6	19

58	The emergence of synchrony in networks of mutually inferring neurons. <i>Scientific Reports</i> , 2019 , 9, 6412	4.9	18
57	Future climates: Markov blankets and active inference in the biosphere. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200503	4.1	17
56	Searching for an anchor in an unpredictable world: A computational model of obsessive compulsive disorder. <i>Psychological Review</i> , 2020 , 127, 672-699	6.3	16
55	With an eye on uncertainty: Modelling pupillary responses to environmental volatility. <i>PLoS Computational Biology</i> , 2019 , 15, e1007126	5	15
54	Degeneracy and Redundancy in Active Inference. <i>Cerebral Cortex</i> , 2020 , 30, 5750-5766	5.1	14
53	Some Interesting Observations on the Free Energy Principle. <i>Entropy</i> , 2021 , 23,	2.8	14
52	From Computation to the First-Person: Auditory-Verbal Hallucinations and Delusions of Thought Interference in Schizophrenia-Spectrum Psychoses. <i>Schizophrenia Bulletin</i> , 2019 , 45, S56-S66	1.3	13
51	Thalamocortical dynamics underlying spontaneous transitions in beta power in Parkinsonism. <i>NeuroImage</i> , 2019 , 193, 103-114	7.9	13
50	Deeply Felt Affect: The Emergence of Valence in Deep Active Inference		13
49	Modules or Mean-Fields?. <i>Entropy</i> , 2020 , 22,	2.8	13
48	Hallucinations both in and out of context: An active inference account. <i>PLoS ONE</i> , 2019 , 14, e0212379	3.7	12
47	Dynamic Causal Modelling of Active Vision. <i>Journal of Neuroscience</i> , 2019 , 39, 6265-6275	6.6	12
46	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	3.4	12
45	Markov blankets in the brain. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 125, 88-97	9	12
44	An Investigation of the Free Energy Principle for Emotion Recognition. <i>Frontiers in Computational Neuroscience</i> , 2020 , 14, 30	3.5	11
43	Biological Self-organisation and Markov blankets		11
42	Deep Active Inference and Scene Construction. <i>Frontiers in Artificial Intelligence</i> , 2020 , 3, 509354	3	10
41	The computational neurology of movement under active inference. <i>Brain</i> , 2021 , 144, 1799-1818	11.2	10

40	Bayesian Filtering with Multiple Internal Models: Toward a Theory of Social Intelligence. <i>Neural Computation</i> , 2019 , 31, 2390-2431	2.9	9
39	Neural Dynamics under Active Inference: Plausibility and Efficiency of Information Processing. <i>Entropy</i> , 2021 , 23,	2.8	9
38	Active listening. <i>Hearing Research</i> , 2021 , 399, 107998	3.9	9
37	Stochastic Chaos and Markov Blankets. <i>Entropy</i> , 2021 , 23,	2.8	9
36	Testing and tracking in the UK: A dynamic causal modelling study. <i>Wellcome Open Research</i> , 5 , 144	4.8	8
35	Generalised free energy and active inference: can the future cause the past?		8
34	Impulsivity and Active Inference. <i>Journal of Cognitive Neuroscience</i> , 2019 , 31, 202-220	3.1	8
33	The computational pharmacology of oculomotion. <i>Psychopharmacology</i> , 2019 , 236, 2473-2484	4.7	7
32	An active inference approach to modeling structure learning: concept learning as an example case		6
31	Generative Models for Active Vision. <i>Frontiers in Neurorobotics</i> , 2021 , 15, 651432	3.4	6
30	A Bayesian Account of Psychopathy: A Model of Lacks Remorse and Self-Aggrandizing. <i>Computational Psychiatry</i> , 2018 , 2, 92-140	3.8	6
29	Neurocomputational mechanisms underlying emotional awareness: insights afforded by deep active inference and their potential clinical relevance		5
28	Second waves, social distancing, and the spread of COVID-19 across America. <i>Wellcome Open Research</i> , 2020 , 5, 103	4.8	5
27	The evolution of brain architectures for predictive coding and active inference.. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022 , 377, 20200531	5.8	5
26	Inferring What to Do (And What Not to). <i>Entropy</i> , 2020 , 22,	2.8	4
25	Active Inference, Novelty and Neglect. <i>Current Topics in Behavioral Neurosciences</i> , 2019 , 41, 115-128	3.4	4
24	Effective immunity and second waves: a dynamic causal modelling study. <i>Wellcome Open Research</i> , 2020 , 5, 204	4.8	4
23	Simulating emotions: An active inference model of emotional state inference and emotion concept learning		4

22	Memory and Markov Blankets. <i>Entropy</i> , 2021 , 23,	2.8	4
21	Passive motion and active inference: Commentary on "Muscleless motor synergies and actions without movements: From motor neuroscience to cognitive robotics" by Vishwanathan Mohan, Ajaz Bhat and Pietro Morasso. <i>Physics of Life Reviews</i> , 2019 , 30, 112-115	2.1	3
20	Effective immunity and second waves: a dynamic causal modelling study. <i>Wellcome Open Research</i> , 2020 , 5, 204	4.8	3
19	Paradoxical lesions, plasticity and active inference. <i>Brain Communications</i> , 2020 , 2, fcaa164	4.5	3
18	A Bayesian account of generalist and specialist formation under the Active Inference framework		3
17	Immunoceptive inference: why are psychiatric disorders and immune responses intertwined?. <i>Biology and Philosophy</i> , 2021 , 36, 27	1.7	3
16	Testing and tracking in the UK: A dynamic causal modelling study. <i>Wellcome Open Research</i> , 5, 144	4.8	3
15	Everything is connected: Inference and attractors in delusions. <i>Schizophrenia Research</i> , 2021 ,	3.6	3
14	A Bayesian Account of Generalist and Specialist Formation Under the Active Inference Framework. <i>Frontiers in Artificial Intelligence</i> , 2020 , 3, 69	3	2
13	Active inference, selective attention, and the cocktail party problem. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 131, 1288-1304	9	2
12	Social intelligence model with multiple internal models		2
11	Message Passing and Metabolism. <i>Entropy</i> , 2021 , 23,	2.8	2
10	Dynamic causal modelling of immune heterogeneity. <i>Scientific Reports</i> , 2021 , 11, 11400	4.9	2
9	Second waves, social distancing, and the spread of COVID-19 across the USA. <i>Wellcome Open Research</i> , 5, 103	4.8	2
8	The Predictive Brain Must Have a Limitation in Short-Term Memory Capacity. <i>Current Directions in Psychological Science</i> , 096372142110299	6.5	2
7	Understanding, Explanation, and Active Inference. <i>Frontiers in Systems Neuroscience</i> , 2021 , 15, 772641	3.5	1
6	Deep Active Inference and Scene Construction		1
5	Choosing a Markov blanket. <i>Behavioral and Brain Sciences</i> , 2020 , 43, e112	0.9	1

4	Active inference, stressors, and psychological trauma: A neuroethological model of (mal)adaptive explore-exploit dynamics in ecological context		1
3	Contextual perception under active inference. <i>Scientific Reports</i> , 2021 , 11, 16223	4.9	0
2	Bayesian Brains and the Rényi Divergence.. <i>Neural Computation</i> , 2022 , 1-27	2.9	0
1	Active Inference, Bayesian Optimal Design, and Expected Utility 2022 , 124-146		0