

Daniel A Braun

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,120
citations

394421
19
h-index

254184
43
g-index

61
all docs

61
docs citations

61
times ranked

2347
citing authors

#	ARTICLE	IF	CITATIONS
1	Representing preorders with injective monotones. Theory and Decision, 2022, 93, 663-690.	1.0	1
2	Multi-Modal Pain Intensity Assessment Based on Physiological Signals: A Deep Learning Perspective. Frontiers in Physiology, 2021, 12, 720464.	2.8	16
3	Nash equilibria in human sensorimotor interactions explained by Q-learning with intrinsic costs. Scientific Reports, 2021, 11, 20779.	3.3	7
4	Bounded rational response equilibria in human sensorimotor interactions. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20212094.	2.6	4
5	Specialization in Hierarchical Learning Systems. Neural Processing Letters, 2020, 52, 2319-2352.	3.2	12
6	Human group coordination in a sensorimotor task with neuron-like decision-making. Scientific Reports, 2020, 10, 8226.	3.3	3
7	The two kinds of free energy and the Bayesian revolution. PLoS Computational Biology, 2020, 16, e1008420.	3.2	23
8	Bounded Rational Decision-Making from Elementary Computations That Reduce Uncertainty. Entropy, 2019, 21, 375.	2.2	23
9	An Information-theoretic On-line Learning Principle for Specialization in Hierarchical Decision-Making Systems. , 2019, , .		3
10	Analyzing Abstraction and Hierarchical Decision-Making in Absolute Identification by Information-Theoretic Bounded Rationality. Frontiers in Neuroscience, 2019, 13, 1230.	2.8	8
11	Systems of Bounded Rational Agents with Information-Theoretic Constraints. Neural Computation, 2019, 31, 440-476.	2.2	5
12	Quantifying Motor Task Performance by Bounded Rational Decision Theory. Frontiers in Neuroscience, 2018, 12, 932.	2.8	16
13	Non-Equilibrium Relations for Bounded Rational Decision-Making in Changing Environments. Entropy, 2018, 20, 1.	2.2	231
14	Bounded Rational Decision-Making with Adaptive Neural Network Priors. Lecture Notes in Computer Science, 2018, , 213-225.	1.3	5
15	An information-theoretic on-line update principle for perception-action coupling. , 2017, , .		5
16	Bio-inspired feedback-circuit implementation of discrete, free energy optimizing, winner-take-all computations. Biological Cybernetics, 2016, 110, 135-150.	1.3	2
17	Planning with Information-Processing Constraints and Model Uncertainty in Markov Decision Processes. Lecture Notes in Computer Science, 2016, , 475-491.	1.3	7
18	Decision-Making under Ambiguity Is Modulated by Visual Framing, but Not by Motor vs. Non-Motor Context. Experiments and an Information-Theoretic Ambiguity Model. PLoS ONE, 2016, 11, e0153179.	2.5	2

#	ARTICLE	IF	CITATIONS
19	Developing neural networks with neurons competing for survival. , 2015, , .		0
20	Structure Learning in Bayesian Sensorimotor Integration. PLoS Computational Biology, 2015, 11, e1004369.	3.2	15
21	Entropic Movement Complexity Reflects Subjective Creativity Rankings of Visualized Hand Motion Trajectories. Frontiers in Psychology, 2015, 6, 1879.	2.1	0
22	Bounded Rationality, Abstraction, and Hierarchical Decision-Making: An Information-Theoretic Optimality Principle. Frontiers in Robotics and AI, 2015, 2, .	3.2	62
23	What is epistemic value in free energy models of learning and acting? A bounded rationality perspective. Cognitive Neuroscience, 2015, 6, 215-216.	1.4	2
24	A Reward-Maximizing Spiking Neuron as a Bounded Rational Decision Maker. Neural Computation, 2015, 27, 1686-1720.	2.2	9
25	Signaling equilibria in sensorimotor interactions. Cognition, 2015, 141, 73-86.	2.2	16
26	Assessing randomness and complexity in human motion trajectories through analysis of symbolic sequences. Frontiers in Human Neuroscience, 2014, 8, 168.	2.0	21
27	Monte Carlo methods for exact & efficient solution of the generalized optimality equations. , 2014, , .		6
28	Information-Theoretic Bounded Rationality and $\hat{\mu}$ -Optimality. Entropy, 2014, 16, 4662-4676.	2.2	14
29	Curiosity-driven learning with Context Tree Weighting. , 2014, , .		0
30	Occam's Razor in sensorimotor learning. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132952.	2.6	12
31	Generalized Thompson sampling for sequential decision-making and causal inference. Complex Adaptive Systems Modeling, 2014, 2, .	1.6	13
32	Thermodynamics as a theory of decision-making with information-processing costs. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20120683.	2.1	139
33	The effect of model uncertainty on cooperation in sensorimotor interactions. Journal of the Royal Society Interface, 2013, 10, 20130554.	3.4	18
34	Facilitation of learning induced by both random and gradual visuomotor task variation. Journal of Neurophysiology, 2012, 107, 1111-1122.	1.8	47
35	Risk-Sensitivity in Bayesian Sensorimotor Integration. PLoS Computational Biology, 2012, 8, e1002698.	3.2	12
36	A sensorimotor paradigm for Bayesian model selection. Frontiers in Human Neuroscience, 2012, 6, 291.	2.0	17

#	ARTICLE	IF	CITATIONS
37	Structural Learning in Sensorimotor Control. , 2012, , 3208-3211.		0
38	Online Adaptation and Over-Trial Learning in Macaque Visuomotor Control. Frontiers in Computational Neuroscience, 2011, 5, 27.	2.1	1
39	Risk-Sensitivity in Sensorimotor Control. Frontiers in Human Neuroscience, 2011, 5, 1.	2.0	363
40	Motor coordination: when two have to act as one. Experimental Brain Research, 2011, 211, 631-641.	1.5	27
41	Path integral control and bounded rationality. , 2011, , .		30
42	Risk-sensitivity and the mean-variance trade-off: decision making in sensorimotor control. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2325-2332.	2.6	43
43	Inferring Visuomotor Priors for Sensorimotor Learning. PLoS Computational Biology, 2011, 7, e1001112.	3.2	26
44	Risk sensitivity in a motor task with speed-accuracy trade-off. Journal of Neurophysiology, 2011, 105, 2668-2674.	1.8	40
45	Information, Utility and Bounded Rationality. Lecture Notes in Computer Science, 2011, , 269-274.	1.3	27
46	Reinforcement Learning and the Bayesian Control Rule. Lecture Notes in Computer Science, 2011, , 281-285.	1.3	0
47	Structure Learning in a Sensorimotor Association Task. PLoS ONE, 2010, 5, e8973.	2.5	26
48	Risk-Sensitive Optimal Feedback Control Accounts for Sensorimotor Behavior under Uncertainty. PLoS Computational Biology, 2010, 6, e1000857.	3.2	64
49	Structure learning in action. Behavioural Brain Research, 2010, 206, 157-165.	2.2	176
50	A conversion between utility and information. , 2010, , .		6
51	A Bayesian Rule for Adaptive Control based on Causal Interventions. , 2010, , .		7
52	Optimal Control Predicts Human Performance on Objects with Internal Degrees of Freedom. PLoS Computational Biology, 2009, 5, e1000419.	3.2	98
53	Nash Equilibria in Multi-Agent Motor Interactions. PLoS Computational Biology, 2009, 5, e1000468.	3.2	75
54	Learning Optimal Adaptation Strategies in Unpredictable Motor Tasks. Journal of Neuroscience, 2009, 29, 6472-6478.	3.6	82

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55	Motor Task Variation Induces Structural Learning. Current Biology, 2009, 19, 352-357.	3.9	214
56	Optimal Control: When Redundancy Matters. Current Biology, 2007, 17, R973-R975.	3.9	5
57	A Minimum Relative Entropy Principle for Learning and Acting. Journal of Artificial Intelligence Research, 0, 38, 475-511.	7.0	32