

Randall D Beer

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

3,206
citations

394421

19
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

1805
citing authors

#	ARTICLE	IF	CITATIONS
1	The brain has a body: adaptive behavior emerges from interactions of nervous system, body and environment. Trends in Neurosciences, 1997, 20, 553-557.	8.6	764
2	A dynamical systems perspective on agent-environment interaction. Artificial Intelligence, 1995, 72, 173-215.	5.8	612
3	Evolving Dynamical Neural Networks for Adaptive Behavior. Adaptive Behavior, 1992, 1, 91-122.	1.9	411
4	On the Dynamics of Small Continuous-Time Recurrent Neural Networks. Adaptive Behavior, 1995, 3, 469-509.	1.9	280
5	Sequential Behavior and Learning in Evolved Dynamical Neural Networks. Adaptive Behavior, 1994, 2, 219-246.	1.9	99
6	Parameter Space Structure of Continuous-Time Recurrent Neural Networks. Neural Computation, 2006, 18, 3009-3051.	2.2	74
7	Information Processing and Dynamics in Minimally Cognitive Agents. Cognitive Science, 2015, 39, 1-38.	1.7	72
8	Autopoiesis and Cognition in the Game of Life. Artificial Life, 2004, 10, 309-326.	1.3	71
9	Connecting a Connectome to Behavior: An Ensemble of Neuroanatomical Models of C. elegans Klinotaxis. PLoS Computational Biology, 2013, 9, e1002890.	3.2	62
10	The Cognitive Domain of a Glider in the Game of Life. Artificial Life, 2014, 20, 183-206.	1.3	46
11	Exploring the Space of Viable Configurations in a Model of Metabolismâ€“Boundary Co-construction. Artificial Life, 2016, 22, 153-171.	1.3	30
12	From head to tail: a neuromechanical model of forward locomotion in <i>Caenorhabditis elegans</i> . Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170374.	4.0	30
13	Associative Learning on a Continuum in Evolved Dynamical Neural Networks. Adaptive Behavior, 2008, 16, 361-384.	1.9	28
14	The whole worm: brainâ€“bodyâ€“environment models of C. elegans. Current Opinion in Neurobiology, 2016, 40, 23-30.	4.2	27
15	Beyond Control: The Dynamics of Brain-Body-Environment Interaction in Motor Systems. Advances in Experimental Medicine and Biology, 2009, 629, 7-24.	1.6	26
16	The Dynamics of Associative Learning in Evolved Model Circuits. Adaptive Behavior, 2007, 15, 377-396.	1.9	24
17	Characterizing Autopoiesis in the Game of Life. Artificial Life, 2015, 21, 1-19.	1.3	24
18	Analysis of a distributed model of leg coordination. Biological Cybernetics, 2000, 82, 197-206.	1.3	21

#	ARTICLE	IF	CITATIONS
19	Potential role of a ventral nerve cord central pattern generator in forward and backward locomotion in <i>Caenorhabditis elegans</i> . Network Neuroscience, 2018, 2, 323-343.	2.6	20
20	Information Flow through a Model of the C. elegans Klinotaxis Circuit. PLoS ONE, 2015, 10, e0140397.	2.5	19
21	An Investigation into the Origin of Autopoiesis. Artificial Life, 2020, 26, 5-22.	1.3	16
22	The evolution and analysis of action switching in embodied agents. Adaptive Behavior, 2014, 22, 3-20.	1.9	14
23	The Structure of Ontogenies in a Model Protocell. Artificial Life, 2016, 22, 499-517.	1.3	7
24	A Neuromechanical Model of Multiple Network Rhythmic Pattern Generators for Forward Locomotion in C. elegans. Frontiers in Computational Neuroscience, 2021, 15, 572339.	2.1	7
25	Environmental Feedback Drives Multiple Behaviors from the Same Neural Circuit. , 0, , .		6
26	Bittorio revisited: structural coupling in the Game of Life. Adaptive Behavior, 2020, 28, 197-212.	1.9	5
27	Evolutionary robotics techniques used to model information and control of visually guided braking. Adaptive Behavior, 2015, 23, 125-142.	1.9	4
28	On the Origin of Gliders. , 2018, , .		4
29	Some historical context for minimal cognition. Adaptive Behavior, 2021, 29, 89-92.	1.9	4
30	Computing aggregate properties of preimages for 2D cellular automata. Chaos, 2017, 27, 111104.	2.5	3
31	Lost in words. Adaptive Behavior, 2020, 28, 19-21.	1.9	3
32	Control of visually guided braking using constant- τ and proportional rate. Experimental Brain Research, 2021, 239, 217-235.	1.5	3
33	Codimension-2 parameter space structure of continuous-time recurrent neural networks. Biological Cybernetics, 2022, 116, 501-515.	1.3	2
34	Structural coupling of a Potts model cell. , 2017, , .		1
35	Computer Evolution of Chemotaxis in Model Nematodes. Brain, Behavior and Evolution, 2011, 77, 1-2.	1.7	0