Randall D Beer

List of Publications by Year
in descending order

35 papers	3,206 citations	448610 19 h-index	445137 33 g-index
38 all docs	38 docs citations	38 times ranked	2057 citing authors

#	Article	IF	Citations
1	Codimension-2 parameter space structure of continuous-time recurrent neural networks. Biological Cybernetics, 2022, 116, 501-515.	0.6	2
2	Some historical context for minimal cognition. Adaptive Behavior, 2021, 29, 89-92.	1.1	4
3	Control of visually guided braking using constant-$$au$$ and proportional rate. Experimental Brain Research, 2021, 239, 217-235.	0.7	3
4	A Neuromechanical Model of Multiple Network Rhythmic Pattern Generators for Forward Locomotion in C. elegans. Frontiers in Computational Neuroscience, 2021, 15, 572339.	1.2	7
5	Lost in words. Adaptive Behavior, 2020, 28, 19-21.	1.1	3
6	Bittorio revisited: structural coupling in the Game of Life. Adaptive Behavior, 2020, 28, 197-212.	1.1	5
7	An Investigation into the Origin of Autopoiesis. Artificial Life, 2020, 26, 5-22.	1.0	16
8	On the Origin of Gliders. , 2018, , .		4
9	Potential role of a ventral nerve cord central pattern generator in forward and backward locomotion inCaenorhabditis elegans. Network Neuroscience, 2018, 2, 323-343.	1.4	20
10	From head to tail: a neuromechanical model of forward locomotion inCaenorhabditisÂelegans. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170374.	1.8	30
11	Computing aggregate properties of preimages for 2D cellular automata. Chaos, 2017, 27, 111104.	1.0	3
12	Structural coupling of a Potts model cell. , 2017, , .		1
13	Exploring the Space of Viable Configurations in a Model of Metabolismâ€“Boundary Co-construction. Artificial Life, 2016, 22, 153-171.	1.0	30
14	The Structure of Ontogenies in a Model Protocell. Artificial Life, 2016, 22, 499-517.	1.0	7
15	The whole worm: brainâ€“bodyâ€“environment models of C. elegans. Current Opinion in Neurobiology, 2016, 40, 23-30.	2.0	27
16	Evolutionary robotics techniques used to model information and control of visually guided braking. Adaptive Behavior, 2015, 23, 125-142.	1.1	4
17	Characterizing Autopoiesis in the Game of Life. Artificial Life, 2015, 21, 1-19.	1.0	24
18	Information Processing and Dynamics in Minimally Cognitive Agents. Cognitive Science, 2015, 39, 1-38.	0.8	72

#	Article	IF	Citations
19	Information Flow through a Model of the C. elegans Klinotaxis Circuit. PLoS ONE, 2015, 10, e0140397.	1.1	19
20	The evolution and analysis of action switching in embodied agents. Adaptive Behavior, 2014, 22, 3-20.	1.1	14
21	The Cognitive Domain of a Glider in the Game of Life. Artificial Life, 2014, 20, 183-206.	1.0	46
22	Connecting a Connectome to Behavior: An Ensemble of Neuroanatomical Models of C. elegans Klinotaxis. PLoS Computational Biology, 2013, 9, e1002890.	1.5	62
23	Computer Evolution of Chemotaxis in Model Nematodes. Brain, Behavior and Evolution, 2011, 77, 1-2.	0.9	0
24	Beyond Control: The Dynamics of Brain-Body-Environment Interaction in Motor Systems. Advances in Experimental Medicine and Biology, 2009, 629, 7-24.	0.8	26
25	Associative Learning on a Continuum in Evolved Dynamical Neural Networks. Adaptive Behavior, 2008, 16, 361-384.	1.1	28
26	The Dynamics of Associative Learning in Evolved Model Circuits. Adaptive Behavior, 2007, 15, 377-396.	1.1	24
27	Parameter Space Structure of Continuous-Time Recurrent Neural Networks. Neural Computation, 2006, 18, 3009-3051.	1.3	74
28	Autopoiesis and Cognition in the Game of Life. Artificial Life, 2004, 10, 309-326.	1.0	71
29	Analysis of a distributed model of leg coordination. Biological Cybernetics, 2000, 82, 197-206.	0.6	21
30	The brain has a body: adaptive behavior emerges from interactions of nervous system, body and environment. Trends in Neurosciences, 1997, 20, 553-557.	4.2	764
31	A dynamical systems perspective on agent-environment interaction. Artificial Intelligence, 1995, 72, 173-215.	3.9	612
32	On the Dynamics of Small Continuous-Time Recurrent Neural Networks. Adaptive Behavior, 1995, 3, 469-509.	1.1	280
33	Sequential Behavior and Learning in Evolved Dynamical Neural Networks. Adaptive Behavior, 1994, 2, 219-246.	1.1	99
34	Evolving Dynamical Neural Networks for Adaptive Behavior. Adaptive Behavior, 1992, 1, 91-122.	1.1	411
35	Environmental Feedback Drives Multiple Behaviors from the Same Neural Circuit. , 0, , .		6