

Bernd Porr

List of Publications by Year in descending order

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45
papers

990
citations

623188

14
h-index

476904

29
g-index

54
all docs

54
docs citations

54
times ranked

742
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal Sequence Learning, Prediction, and Control: A Review of Different Models and Their Relation to Biological Mechanisms. <i>Neural Computation</i> , 2005, 17, 245-319.	1.3	173
2	Adaptive, Fast Walking in a Biped Robot under Neuronal Control and Learning. <i>PLoS Computational Biology</i> , 2007, 3, e134.	1.5	83
3	How the Shape of Pre- and Postsynaptic Signals Can Influence STDP: A Biophysical Model. <i>Neural Computation</i> , 2004, 16, 595-625.	1.3	64
4	Strongly Improved Stability and Faster Convergence of Temporal Sequence Learning by Using Input Correlations Only. <i>Neural Computation</i> , 2006, 18, 1380-1412.	1.3	60
5	Isotropic Sequence Order Learning. <i>Neural Computation</i> , 2003, 15, 831-864.	1.3	59
6	A Reflexive Neural Network for Dynamic Biped Walking Control. <i>Neural Computation</i> , 2006, 18, 1156-1196.	1.3	37
7	SaBer DBS: A fully programmable, rechargeable, bilateral, charge-balanced preclinical microstimulator for long-term neural stimulation. <i>Journal of Neuroscience Methods</i> , 2013, 213, 228-235.	1.3	35
8	Learning with "Relevance": Using a Third Factor to Stabilize Hebbian Learning. <i>Neural Computation</i> , 2007, 19, 2694-2719.	1.3	31
9	ISO Learning Approximates a Solution to the Inverse-Controller Problem in an Unsupervised Behavioral Paradigm. <i>Neural Computation</i> , 2003, 15, 865-884.	1.3	23
10	Mathematical properties of neuronal TD-rules and differential Hebbian learning: a comparison. <i>Biological Cybernetics</i> , 2008, 98, 259-272.	0.6	18
11	Real-time estimation of horizontal gaze angle by saccade integration using in-ear electrooculography. <i>PLoS ONE</i> , 2018, 13, e0190420.	1.1	18
12	A reflexive neural network for dynamic biped walking control. <i>Neural Computation</i> , 2006, 18, 1156-96.	1.3	18
13	Isotropic-sequence-order learning in a closed-loop behavioural system. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 2225-2244.	1.6	17
14	Inside embodiment "what means embodiment to radical constructivists?". <i>Kybernetes</i> , 2005, 34, 105-117.	1.2	16
15	Local learning rules: predicted influence of dendritic location on synaptic modification in spike-timing-dependent plasticity. <i>Biological Cybernetics</i> , 2005, 92, 128-138.	0.6	15
16	Chained learning architectures in a simple closed-loop behavioural context. <i>Biological Cybernetics</i> , 2007, 97, 363-378.	0.6	14
17	Deep brain stimulation of the mediodorsal thalamic nucleus yields increases in the expression of zif-268 but not c-fos in the frontal cortex. <i>Journal of Chemical Neuroanatomy</i> , 2013, 52, 20-24.	1.0	14
18	Behavioral analysis of differential hebbian learning in closed-loop systems. <i>Biological Cybernetics</i> , 2010, 103, 255-271.	0.6	12

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19	The internal representation of vowel spectra investigated using behavioral response-triggered averaging. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL118-EL122.	0.5	12
20	Reflex Control of Robotic Gait Using Human Walking Data. <i>PLoS ONE</i> , 2014, 9, e109959.	1.1	11
21	A VLSI-Compatible Computer Vision Algorithm for Stereoscopic Depth Analysis in Real-Time. <i>International Journal of Computer Vision</i> , 2002, 49, 39-55.	10.9	10
22	How to "hear" visual disparities: real-time stereoscopic spatial depth analysis using temporal resonance. <i>Biological Cybernetics</i> , 1998, 78, 329-336.	0.6	9
23	The RunBot Architecture for Adaptive, Fast, Dynamic Walking. , 2007, , .		9
24	Self-influencing synaptic plasticity: Recurrent changes of synaptic weights can lead to specific functional properties. <i>Journal of Computational Neuroscience</i> , 2007, 23, 113-127.	0.6	9
25	On the Asymptotic Equivalence Between Differential Hebbian and Temporal Difference Learning. <i>Neural Computation</i> , 2009, 21, 1173-1202.	1.3	9
26	A functional electrical stimulation system for human walking inspired by reflexive control principles. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 315-325.	1.0	9
27	Fast heterosynaptic learning in a robot food retrieval task inspired by the limbic system. <i>BioSystems</i> , 2007, 89, 294-299.	0.9	8
28	Bipedal robotic walking control derived from analysis of human locomotion. <i>Biological Cybernetics</i> , 2018, 112, 277-290.	0.6	8
29	On the Interaction of Head and Gaze Control With Acoustic Beam Width of a Simulated Beamformer in a Two-Talker Scenario. <i>Trends in Hearing</i> , 2019, 23, 233121651987679.	0.7	8
30	Learning and Reversal Learning in the Subcortical Limbic System: A Computational Model. <i>Adaptive Behavior</i> , 2010, 18, 211-236.	1.1	6
31	Formal Modeling of Robot Behavior with Learning. <i>Neural Computation</i> , 2013, 25, 2976-3019.	1.3	6
32	Developing velocity sensitivity in a model neuron by local synaptic plasticity. <i>Biological Cybernetics</i> , 2007, 96, 507-518.	0.6	5
33	How feedback inhibition shapes spike-timing-dependent plasticity and its implications for recent Schizophrenia models. <i>Neural Networks</i> , 2011, 24, 560-567.	3.3	5
34	Closed-Loop Deep Learning: Generating Forward Models With Backpropagation. <i>Neural Computation</i> , 2020, 32, 2122-2144.	1.3	5
35	Improved stability and convergence with three factor learning. <i>Neurocomputing</i> , 2007, 70, 2005-2008.	3.5	3
36	Forward propagation closed loop learning. <i>Adaptive Behavior</i> , 2020, 28, 181-194.	1.1	3

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37	A Computational Model of the Role of Serotonin in Reversal Learning. Lecture Notes in Computer Science, 2012, , 279-288.	1.0	3
38	Adaptive Communication Promotes Sub-system Formation in a Multi Agent System with Limited Resources. , 2008, , .		2
39	Stabilising Hebbian Learning with a Third Factor in a Food Retrieval Task. Lecture Notes in Computer Science, 2006, , 313-322.	1.0	2
40	Model checking learning agent systems using Promela with embedded C code and abstraction. Formal Aspects of Computing, 2016, 28, 1027-1056.	1.4	1
41	An investigation into serotonergic and environmental interventions against depression in a simulated delayed reward paradigm. Adaptive Behavior, 2020, 28, 241-260.	1.1	1
42	Differential Hebbian learning with time-continuous signals for active noise reduction. PLoS ONE, 2022, 17, e0266679.	1.1	1
43	A Novel Information Measure for Adaptive Controllers in Swarm Systems. , 2009, , .		0
44	A Novel Information Measure for Predictive Learning in a Social System Setting. Lecture Notes in Computer Science, 2010, , 511-522.	1.0	0
45	Deep Feedback Learning. Lecture Notes in Computer Science, 2018, , 189-200.	1.0	0