

Kenji Doya

List of Publications by Year in descending order

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174
papers

13,140
citations

46918

47
h-index

24915

109
g-index

195
all docs

195
docs citations

195
times ranked

10452
citing authors

#	ARTICLE	IF	CITATIONS
1	A unifying computational framework for motor control and social interaction. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 593-602.	1.8	956
2	Representation of Action-Specific Reward Values in the Striatum. <i>Science</i> , 2005, 310, 1337-1340.	6.0	823
3	Complementary roles of basal ganglia and cerebellum in learning and motor control. <i>Current Opinion in Neurobiology</i> , 2000, 10, 732-739.	2.0	783
4	Prediction of immediate and future rewards differentially recruits cortico-basal ganglia loops. <i>Nature Neuroscience</i> , 2004, 7, 887-893.	7.1	757
5	Reinforcement Learning in Continuous Time and Space. <i>Neural Computation</i> , 2000, 12, 219-245.	1.3	738
6	Parallel neural networks for learning sequential procedures. <i>Trends in Neurosciences</i> , 1999, 22, 464-471.	4.2	702
7	Modulators of decision making. <i>Nature Neuroscience</i> , 2008, 11, 410-416.	7.1	548
8	Metalearning and neuromodulation. <i>Neural Networks</i> , 2002, 15, 495-506.	3.3	544
9	The computational neurobiology of learning and reward. <i>Current Opinion in Neurobiology</i> , 2006, 16, 199-204.	2.0	466
10	Multiple Model-Based Reinforcement Learning. <i>Neural Computation</i> , 2002, 14, 1347-1369.	1.3	353
11	Consensus Paper: Towards a Systems-Level View of Cerebellar Function: the Interplay Between Cerebellum, Basal Ganglia, and Cortex. <i>Cerebellum</i> , 2017, 16, 203-229.	1.4	321
12	A Neural Correlate of Reward-Based Behavioral Learning in Caudate Nucleus: A Functional Magnetic Resonance Imaging Study of a Stochastic Decision Task. <i>Journal of Neuroscience</i> , 2004, 24, 1660-1665.	1.7	265
13	Meta-learning in Reinforcement Learning. <i>Neural Networks</i> , 2003, 16, 5-9.	3.3	246
14	Hierarchical Bayesian estimation for MEG inverse problem. <i>NeuroImage</i> , 2004, 23, 806-826.	2.1	242
15	Low-Serotonin Levels Increase Delayed Reward Discounting in Humans. <i>Journal of Neuroscience</i> , 2008, 28, 4528-4532.	1.7	229
16	Validation of Decision-Making Models and Analysis of Decision Variables in the Rat Basal Ganglia. <i>Journal of Neuroscience</i> , 2009, 29, 9861-9874.	1.7	228
17	Optogenetic Activation of Dorsal Raphe Serotonin Neurons Enhances Patience for Future Rewards. <i>Current Biology</i> , 2014, 24, 2033-2040.	1.8	200
18	Activation of Dorsal Raphe Serotonin Neurons Underlies Waiting for Delayed Rewards. <i>Journal of Neuroscience</i> , 2011, 31, 469-479.	1.7	197

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19	Acquisition of stand-up behavior by a real robot using hierarchical reinforcement learning. <i>Robotics and Autonomous Systems</i> , 2001, 36, 37-51.	3.0	186
20	Parallel Cortico-Basal Ganglia Mechanisms for Acquisition and Execution of Visuomotor Sequences – A Computational Approach. <i>Journal of Cognitive Neuroscience</i> , 2001, 13, 626-647.	1.1	174
21	Serotonin Differentially Regulates Short- and Long-Term Prediction of Rewards in the Ventral and Dorsal Striatum. <i>PLoS ONE</i> , 2007, 2, e1333.	1.1	154
22	Evidence for effector independent and dependent representations and their differential time course of acquisition during motor sequence learning. <i>Experimental Brain Research</i> , 2000, 132, 149-162.	0.7	153
23	Cerebellar aminergic neuromodulation: towards a functional understanding. <i>Brain Research Reviews</i> , 2004, 44, 103-116.	9.1	143
24	The Role of Serotonin in the Regulation of Patience and Impulsivity. <i>Molecular Neurobiology</i> , 2012, 45, 213-224.	1.9	131
25	Adaptive neural oscillator using continuous-time back-propagation learning. <i>Neural Networks</i> , 1989, 2, 375-385.	3.3	127
26	Electrophysiological Properties of Inferior Olive Neurons: A Compartmental Model. <i>Journal of Neurophysiology</i> , 1999, 82, 804-817.	0.9	124
27	Unsupervised learning of granule cell sparse codes enhances cerebellar adaptive control. <i>Neuroscience</i> , 2001, 103, 35-50.	1.1	114
28	Chaos may enhance information transmission in the inferior olive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4655-4660.	3.3	109
29	Robust Reinforcement Learning. <i>Neural Computation</i> , 2005, 17, 335-359.	1.3	108
30	Multiple representations and algorithms for reinforcement learning in the cortico-basal ganglia circuit. <i>Current Opinion in Neurobiology</i> , 2011, 21, 368-373.	2.0	108
31	Neuroethics Questions to Guide Ethical Research in the International Brain Initiatives. <i>Neuron</i> , 2018, 100, 19-36.	3.8	104
32	Reinforcement learning: Computational theory and biological mechanisms. <i>HFSP Journal</i> , 2007, 1, 30-40.	2.5	99
33	fMRI investigation of cortical and subcortical networks in the learning of abstract and effector-specific representations of motor sequences. <i>NeuroImage</i> , 2006, 32, 714-727.	2.1	94
34	Distinct Neural Representation in the Dorsolateral, Dorsomedial, and Ventral Parts of the Striatum during Fixed- and Free-Choice Tasks. <i>Journal of Neuroscience</i> , 2015, 35, 3499-3514.	1.7	93
35	Activation of Dorsal Raphe Serotonin Neurons Is Necessary for Waiting for Delayed Rewards. <i>Journal of Neuroscience</i> , 2012, 32, 10451-10457.	1.7	91
36	Identification of depression subtypes and relevant brain regions using a data-driven approach. <i>Scientific Reports</i> , 2018, 8, 14082.	1.6	90

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37	Multiple Representations of Belief States and Action Values in Corticobasal Ganglia Loops. <i>Annals of the New York Academy of Sciences</i> , 2007, 1104, 213-228.	1.8	85
38	Learning CPG-based biped locomotion with a policy gradient method. <i>Robotics and Autonomous Systems</i> , 2006, 54, 911-920.	3.0	83
39	Understanding Neural Coding through the Model-Based Analysis of Decision Making: Figure 1.. <i>Journal of Neuroscience</i> , 2007, 27, 8178-8180.	1.7	81
40	A Kinetic Model of Dopamine- and Calcium-Dependent Striatal Synaptic Plasticity. <i>PLoS Computational Biology</i> , 2010, 6, e1000670.	1.5	81
41	Neural substrate of dynamic Bayesian inference in the cerebral cortex. <i>Nature Neuroscience</i> , 2016, 19, 1682-1689.	7.1	78
42	Prediction of clinical depression scores and detection of changes in whole-brain using resting-state functional MRI data with partial least squares regression. <i>PLoS ONE</i> , 2017, 12, e0179638.	1.1	78
43	Humans Can Adopt Optimal Discounting Strategy under Real-Time Constraints. <i>PLoS Computational Biology</i> , 2006, 2, e152.	1.5	70
44	Brain mechanism of reward prediction under predictable and unpredictable environmental dynamics. <i>Neural Networks</i> , 2006, 19, 1233-1241.	3.3	62
45	Toward Probabilistic Diagnosis and Understanding of Depression Based on Functional MRI Data Analysis with Logistic Group LASSO. <i>PLoS ONE</i> , 2015, 10, e0123524.	1.1	61
46	The Cyber Rodent Project: Exploration of Adaptive Mechanisms for Self-Preservation and Self-Reproduction. <i>Adaptive Behavior</i> , 2005, 13, 149-160.	1.1	58
47	Reinforcement learning: Computational theory and biological mechanisms. , 2007, 1, 30-40.		58
48	Serotonin Affects Association of Aversive Outcomes to Past Actions. <i>Journal of Neuroscience</i> , 2009, 29, 15669-15674.	1.7	54
49	Reward probability and timing uncertainty alter the effect of dorsal raphe serotonin neurons on patience. <i>Nature Communications</i> , 2018, 9, 2048.	5.8	54
50	Activation of the central serotonergic system in response to delayed but not omitted rewards. <i>European Journal of Neuroscience</i> , 2011, 33, 153-160.	1.2	53
51	Serotonin and the Evaluation of Future Rewards: Theory, Experiments, and Possible Neural Mechanisms. <i>Annals of the New York Academy of Sciences</i> , 2007, 1104, 289-300.	1.8	48
52	Inter-module credit assignment in modular reinforcement learning. <i>Neural Networks</i> , 2003, 16, 985-994.	3.3	47
53	Model-based action planning involves cortico-cerebellar and basal ganglia networks. <i>Scientific Reports</i> , 2016, 6, 31378.	1.6	45
54	Computational Model of Recurrent Subthalamo-Pallidal Circuit for Generation of Parkinsonian Oscillations. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 21.	0.9	43

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55	Reward-Predictive Neural Activities in Striatal Striosome Compartments. <i>ENeuro</i> , 2018, 5, ENEURO.0367-17.2018.	0.9	43
56	Adaptive Baseline Enhances EM-Based Policy Search: Validation in a View-Based Positioning Task of a Smartphone Balancer. <i>Frontiers in Neurorobotics</i> , 2017, 11, 1.	1.6	42
57	Hierarchical control of goal-directed action in the corticalâ€“basal ganglia network. <i>Current Opinion in Behavioral Sciences</i> , 2015, 5, 1-7.	2.0	38
58	Evolutionary Development of Hierarchical Learning Structures. <i>IEEE Transactions on Evolutionary Computation</i> , 2007, 11, 249-264.	7.5	34
59	Three-dimensional distribution of Fos-positive neurons in the supramammillary nucleus of the rat exposed to novel environment. <i>Neuroscience Research</i> , 2009, 64, 397-402.	1.0	34
60	Evidence for Model-Based Action Planning in a Sequential Finger Movement Task. <i>Journal of Motor Behavior</i> , 2010, 42, 371-379.	0.5	34
61	Reinforcement learning with via-point representation. <i>Neural Networks</i> , 2004, 17, 299-305.	3.3	33
62	Nitric Oxide Regulates Input Specificity of Long-Term Depression and Context Dependence of Cerebellar Learning. <i>PLoS Computational Biology</i> , 2007, 3, e179.	1.5	33
63	Changing the structure of complex visuo-motor sequences selectively activates the fronto-parietal network. <i>NeuroImage</i> , 2012, 59, 1180-1189.	2.1	30
64	Serotonergic projections to the orbitofrontal and medial prefrontal cortices differentially modulate waiting for future rewards. <i>Science Advances</i> , 2020, 6, .	4.7	30
65	Near-Saddle-Node Bifurcation Behavior as Dynamics in Working Memory for Goal-Directed Behavior. <i>Neural Computation</i> , 1998, 10, 113-132.	1.3	27
66	MOSAIC for Multiple-Reward Environments. <i>Neural Computation</i> , 2012, 24, 577-606.	1.3	25
67	Anterior and superior lateral occipito-temporal cortex responsible for target motion prediction during overt and covert visual pursuit. <i>Neuroscience Research</i> , 2006, 54, 112-123.	1.0	24
68	Inter-individual discount factor differences in reward prediction are topographically associated with caudate activation. <i>Experimental Brain Research</i> , 2011, 212, 593-601.	0.7	24
69	Prediction of Immediate and Future Rewards Differentially Recruits Cortico-Basal Ganglia Loops. , 2016, , 593-616.		23
70	Evolution of recurrent neural controllers using an extended parallel genetic algorithm. <i>Robotics and Autonomous Systems</i> , 2005, 52, 148-159.	3.0	20
71	Constrained reinforcement learning from intrinsic and extrinsic rewards. , 2007, , .		20
72	Co-evolution of Shaping Rewards and Meta-Parameters in Reinforcement Learning. <i>Adaptive Behavior</i> , 2008, 16, 400-412.	1.1	20

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73	Decision making. <i>Current Opinion in Neurobiology</i> , 2012, 22, 911-913.	2.0	20
74	A biologically constrained spiking neural network model of the primate basal ganglia with overlapping pathways exhibits action selection. <i>European Journal of Neuroscience</i> , 2021, 53, 2254-2277.	1.2	20
75	Statistical characteristics of climbing fiber spikes necessary for efficient cerebellar learning. <i>Biological Cybernetics</i> , 2001, 84, 183-192.	0.6	19
76	Uncertainty in action value estimation affects both action choice and learning rate of the choice behaviors of rats. <i>European Journal of Neuroscience</i> , 2012, 35, 1180-1189.	1.2	18
77	Multiple co-clustering based on nonparametric mixture models with heterogeneous marginal distributions. <i>PLoS ONE</i> , 2017, 12, e0186566.	1.1	18
78	Finding intrinsic rewards by embodied evolution and constrained reinforcement learning. <i>Neural Networks</i> , 2008, 21, 1447-1455.	3.3	17
79	Parallel Representation of Value-Based and Finite State-Based Strategies in the Ventral and Dorsal Striatum. <i>PLoS Computational Biology</i> , 2015, 11, e1004540.	1.5	17
80	Evaluation of linearly solvable Markov decision process with dynamic model learning in a mobile robot navigation task. <i>Frontiers in Neurorobotics</i> , 2013, 7, 7.	1.6	16
81	From free energy to expected energy: Improving energy-based value function approximation in reinforcement learning. <i>Neural Networks</i> , 2016, 84, 17-27.	3.3	16
82	Evolution of Neural Architecture Fitting Environmental Dynamics. <i>Adaptive Behavior</i> , 2005, 13, 53-66.	1.1	15
83	Multiple model-based reinforcement learning explains dopamine neuronal activity. <i>Neural Networks</i> , 2007, 20, 668-675.	3.3	15
84	Serotonergic modulation of cognitive computations. <i>Current Opinion in Behavioral Sciences</i> , 2021, 38, 116-123.	2.0	15
85	Switching particle filters for efficient visual tracking. <i>Robotics and Autonomous Systems</i> , 2006, 54, 873-884.	3.0	14
86	Symbolization and imitation learning of motion sequence using competitive modules. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsjunbun)</i> , 2010, 85, 10-17.	0.0	14
87	A Spiking Neural Network Model of Model-Free Reinforcement Learning with High-Dimensional Sensory Input and Perceptual Ambiguity. <i>PLoS ONE</i> , 2015, 10, e0115620.	1.1	14
88	Dimension Reduction of Biological Neuron Models by Artificial Neural Networks. <i>Neural Computation</i> , 1994, 6, 696-717.	1.3	13
89	The Mechanism of Saccade Motor Pattern Generation Investigated by a Large-Scale Spiking Neuron Model of the Superior Colliculus. <i>PLoS ONE</i> , 2013, 8, e57134.	1.1	13
90	Forward and inverse reinforcement learning sharing network weights and hyperparameters. <i>Neural Networks</i> , 2021, 144, 138-153.	3.3	13

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91	Reinforcement Learning State Estimator. <i>Neural Computation</i> , 2007, 19, 730-756.	1.3	12
92	A model-based prediction of the calcium responses in the striatal synaptic spines depending on the timing of cortical and dopaminergic inputs and post-synaptic spikes. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 119.	1.2	12
93	Social impact and governance of AI and neurotechnologies. <i>Neural Networks</i> , 2022, 152, 542-554.	3.3	12
94	Hierarchical reinforcement learning for motion learning: learning 'stand-up' trajectories. <i>Advanced Robotics</i> , 1998, 13, 267-268.	1.1	11
95	A hierarchical Bayesian method to resolve an inverse problem of MEG contaminated with eye movement artifacts. <i>NeuroImage</i> , 2009, 45, 393-409.	2.1	11
96	Neural and Personality Correlates of Individual Differences Related to the Effects of Acute Tryptophan Depletion on Future Reward Evaluation. <i>Neuropsychobiology</i> , 2012, 65, 55-64.	0.9	11
97	Reinforcement learning with state-dependent discount factor. , 2013, , .		11
98	A whole brain probabilistic generative model: Toward realizing cognitive architectures for developmental robots. <i>Neural Networks</i> , 2022, 150, 293-312.	3.3	11
99	Self-organization of action hierarchy and compositionality by reinforcement learning with recurrent neural networks. <i>Neural Networks</i> , 2020, 129, 149-162.	3.3	10
100	How can we learn efficiently to act optimally and flexibly?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11429-11430.	3.3	9
101	Combining learned controllers to achieve new goals based on linearly solvable MDPs. , 2014, , .		9
102	Online meta-learning by parallel algorithm competition. , 2018, , .		9
103	Title is missing!. <i>Journal of the Robotics Society of Japan</i> , 2001, 19, 551-556.	0.0	9
104	Diffusion functional MRI reveals global brain network functional abnormalities driven by targeted local activity in a neuropsychiatric disease mouse model. <i>NeuroImage</i> , 2020, 223, 117318.	2.1	8
105	Canonical cortical circuits and the duality of Bayesian inference and optimal control. <i>Current Opinion in Behavioral Sciences</i> , 2021, 41, 160-166.	2.0	8
106	Scaled free-energy based reinforcement learning for robust and efficient learning in high-dimensional state spaces. <i>Frontiers in Neurorobotics</i> , 2013, 7, 3.	1.6	8
107	Title is missing!. <i>Journal of the Robotics Society of Japan</i> , 2001, 19, 574-579.	0.0	8
108	Deploying and Optimizing Embodied Simulations of Large-Scale Spiking Neural Networks on HPC Infrastructure. <i>Frontiers in Neuroinformatics</i> , 2022, 16, .	1.3	8

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109	Learning how, what, and whether to communicate: emergence of protocommunication in reinforcement learning agents. <i>Artificial Life and Robotics</i> , 2008, 12, 70-74.	0.7	7
110	A computational neural model of goal-directed utterance selection. <i>Neural Networks</i> , 2010, 23, 592-606.	3.3	7
111	Derivatives of Logarithmic Stationary Distributions for Policy Gradient Reinforcement Learning. <i>Neural Computation</i> , 2010, 22, 342-376.	1.3	7
112	Emergence of Polymorphic Mating Strategies in Robot Colonies. <i>PLoS ONE</i> , 2014, 9, e93622.	1.1	7
113	Inverse reinforcement learning using Dynamic Policy Programming. , 2014, , .		7
114	Exciting Time for Neural Networks. <i>Neural Networks</i> , 2015, 61, xv-xvi.	3.3	7
115	EM-based policy hyper parameter exploration: application to standing and balancing of a two-wheeled smartphone robot. <i>Artificial Life and Robotics</i> , 2016, 21, 125-131.	0.7	6
116	Toward evolutionary and developmental intelligence. <i>Current Opinion in Behavioral Sciences</i> , 2019, 29, 91-96.	2.0	6
117	A New Natural Policy Gradient by Stationary Distribution Metric. <i>Lecture Notes in Computer Science</i> , 2008, , 82-97.	1.0	6
118	The Basal Ganglia and the Encoding of Value. , 2009, , 407-416.		6
119	Hierarchical Reinforcement Learning for Multiple Reward Functions. <i>Journal of the Robotics Society of Japan</i> , 2004, 22, 120-129.	0.0	6
120	APPLICATION OF EVOLUTIONARY COMPUTATION FOR EFFICIENT REINFORCEMENT LEARNING. <i>Applied Artificial Intelligence</i> , 2006, 20, 35-55.	2.0	5
121	Condition interference in rats performing a choice task with switched variable- and fixed-reward conditions. <i>Frontiers in Neuroscience</i> , 2015, 9, 27.	1.4	5
122	Fostering deep learning and beyond. <i>Neural Networks</i> , 2018, 97, iii-iv.	3.3	5
123	Robustness of linearly solvable Markov games employing inaccurate dynamics model. <i>Artificial Life and Robotics</i> , 2018, 23, 1-9.	0.7	5
124	Inter-module credit assignment in modular reinforcement learning. <i>Neural Networks</i> , 2003, 16, 985-985.	3.3	4
125	Combining Modalities with Different Latencies for Optimal Motor Control. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 1966-1979.	1.1	4
126	Expedited review process. <i>Neural Networks</i> , 2012, 25, 1.	3.3	4

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127	Faster Turnaround. <i>Neural Networks</i> , 2014, 49, xiv-xv.	3.3	4
128	Natural actor-critic with baseline adjustment for variance reduction. <i>Artificial Life and Robotics</i> , 2008, 13, 275-279.	0.7	3
129	Editorial for 2010. <i>Neural Networks</i> , 2010, 23, 1.	3.3	3
130	An excellent year and a transition. <i>Neural Networks</i> , 2011, 24, 1.	3.3	3
131	Average Reward Optimization with Multiple Discounting Reinforcement Learners. <i>Lecture Notes in Computer Science</i> , 2017, , 789-800.	1.0	3
132	Neural network model of temporal pattern memory. <i>Systems and Computers in Japan</i> , 1991, 22, 61-69.	0.2	2
133	Driver model based on reinforced learning with multiple-step state estimation. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi)</i> Tj ETQq1 1 0.784314 rgBT #Overlock	0.784314	1
134	Multiple model-based reinforcement learning for nonlinear control. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi)</i> Tj ETQq0 0 0 rgBT #Overlock 10 Tf 50	0.0	0
135	Multi-scale, multi-modal neural modeling and simulation. <i>Neural Networks</i> , 2011, 24, 917.	3.3	2
136	The Basal Ganglia, Reinforcement Learning, and the Encoding of Value. , 2014, , 321-333.		2
137	State of Neural Networks Is Strong. <i>Neural Networks</i> , 2016, 73, xiii.	3.3	2
138	Chunking Phenomenon in Complex Sequential Skill Learning in Humans. <i>Lecture Notes in Computer Science</i> , 2004, , 294-299.	1.0	2
139	Humans can adopt optimal discounting strategy under real-time constraints. <i>PLoS Computational Biology</i> , 2005, preprint, e152.	1.5	2
140	Co-evolution of Rewards and Meta-parameters in Embodied Evolution. <i>Lecture Notes in Computer Science</i> , 2009, , 278-302.	1.0	2
141	Estimating Internal Variables of a Decision Maker's Brain: A Model-Based Approach for Neuroscience. <i>Lecture Notes in Computer Science</i> , 2007, , 596-603.	1.0	2
142	Activity of serotonergic neurons in the dorsal raphe nucleus of freely moving rats during reward and non-reward delay period. <i>Neuroscience Research</i> , 2007, 58, S169.	1.0	1
143	Hierarchical information coding in the striatum during decision making tasks. <i>Neuroscience Research</i> , 2010, 68, e187.	1.0	1
144	Computation of Driving Pleasure based on Driver's Learning Process Simulation by Reinforcement Learning. , 0, , .		1

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145	Inter Subject Correlation of Brain Activity during Visuo-Motor Sequence Learning. Lecture Notes in Computer Science, 2014, , 35-41.	1.0	1
146	Promoting Further Developments of Neural Networks. Neural Networks, 2017, 85, xiii.	3.3	1
147	NeuroEvolution Based on Reusable and Hierarchical Modular Representation. Lecture Notes in Computer Science, 2009, , 22-31.	1.0	1
148	Cognitive Robotics. Robotics and the brain sciences.. Journal of the Robotics Society of Japan, 1999, 17, 7-10.	0.0	1
149	A Spiking Neural Network Builder for Systematic Data-to-Model Workflow. Frontiers in Neuroinformatics, 0, 16, .	1.3	1
150	ESTIMATING INTENTION OF OTHERS FOR IMITATION AND COOPERATION. , 2005, , .		0
151	S3f2-5 Learning model-based analysis of neuroimaging data(S3-f2: "Advances in Anatomical, Functional,) Tj ETQq1 1 0.784314 rgBT /Ov Seibutsu Butsuri, 2006, 46, S146.	0.0	0
152	In pursuit of the brain mechanism of reinforcement learning. Neuroscience Research, 2007, 58, S2.	1.0	0
153	Selective impairment of reward-based adaptive choice of actions by intra-striatal injection of dopamine D1 receptor antagonist. Neuroscience Research, 2007, 58, S114.	1.0	0
154	Designing the Reward System: Computational and Biological Principles. , 2007, , .		0
155	Learning a dynamic policy by using policy gradient: application to biped walking. Systems and Computers in Japan, 2007, 38, 25-38.	0.2	0
156	Mini-special issue: ICONIP 2007. Neural Networks, 2008, 21, 1419.	3.3	0
157	Different representation of action and reward in the dorsal and the ventral striatum. Neuroscience Research, 2009, 65, S110-S111.	1.0	0
158	Brain mechanisms for evaluating probabilistic and delayed rewards. Neuroscience Research, 2009, 65, S239.	1.0	0
159	Model-free and model-based strategies in rats's choice behaviors. Neuroscience Research, 2009, 65, S233.	1.0	0
160	Electrophysiological and molecular mechanisms of synaptic plasticity in the striatum. Neuroscience Research, 2010, 68, e346.	1.0	0
161	Neural activity in the dorsal striatum during cognitive decision making. Neuroscience Research, 2010, 68, e299.	1.0	0
162	Model-free and model-based strategy for rats's action selection. Neuroscience Research, 2010, 68, e186-e187.	1.0	0

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163	Neuronal coding of value-based and finite state-based decision strategies in the dorsal and ventral striatum. <i>Neuroscience Research</i> , 2011, 71, e272.	1.0	0
164	Evolution of rewards and learning mechanisms in Cyber Rodents. , 0, , 109-128.		0
165	Chunking During Learning of Visuomotor Sequences with Spatial and Arbitrary Rules: Preliminary Findings. <i>Psychological Studies</i> , 2012, 57, 22-28.	0.5	0
166	Derivation of integrated state equation for combined outputs-inputs vector of discrete-time linear time-invariant system and its application to reinforcement learning. , 2017, , .		0
167	Effects of transcranial direct current stimulation in brain-computer interface. , 2021, , .		0
168	ã,µã,ãfãf¼ãfãf¼ãfãf³ãfãf—ãfã,ã,šã,ãf. <i>The Brain & Neural Networks</i> , 2007, 14, 293-304.	0.1	0
169	Emergence of Different Mating Strategies in Artificial Embodied Evolution. <i>Lecture Notes in Computer Science</i> , 2009, , 638-647.	1.0	0
170	Calcium Responses Model in Striatum Dependent on Timed Input Sources. <i>Lecture Notes in Computer Science</i> , 2009, , 249-258.	1.0	0
171	An Experimental Study of Emergence of Communication of Reinforcement Learning Agents. <i>Lecture Notes in Computer Science</i> , 2019, , 91-100.	1.0	0
172	Finding Exploratory Rewards by Embodied Evolution and Constrained Reinforcement Learning in the Cyber Rodents. <i>Lecture Notes in Computer Science</i> , 2007, , 167-176.	1.0	0
173	Special issue on Symbol Emergence in Robotics and Cognitive Systems (I). <i>Advanced Robotics</i> , 2022, 36, 1-2.	1.1	0
174	Special issue on symbol emergence in robotics and cognitive systems (II). <i>Advanced Robotics</i> , 2022, 36, 217-218.	1.1	0