

Yoonsuck Choe

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

794
citations

687363

13
h-index

610901

24
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120
all docs

120
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120
times ranked

784
citing authors

#	ARTICLE	IF	CITATIONS
1	Connectome, Mouse. , 2022, , 976-979.		0
2	Physical Sectioning Microscopy. , 2022, , 2776-2779.		0
3	Connectome, General. , 2022, , 967-976.		0
4	AdjointBackMap: Reconstructing effective decision hypersurfaces from CNN layers using adjoint operators. Neural Networks, 2022, 154, 78-98.	5.9	2
5	Emergence of Different Modes of Tool Use in a Reaching and Dragging Task. , 2021, , .		0
6	Online Virtual Training in Soft Actor-Critic for Autonomous Driving. , 2021, , .		3
7	Recognizing creative visual design. , 2021, , .		2
8	Computational Neuroanatomy: Overview. , 2021, , 1-3.		0
9	Attention augmentation with multi-residual in bidirectional LSTM. Neurocomputing, 2020, 385, 340-347.	5.9	27
10	Plug-in, Trainable Gate for Streamlining Arbitrary Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 4452-4459.	4.9	10
11	Action Recognition and State Change Prediction in a Recipe Understanding Task Using a Lightweight Neural Network Model (Student Abstract). Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 13945-13946.	4.9	2
12	Speeding Up Affordance Learning for Tool Use, Using Proprioceptive and Kinesthetic Inputs. , 2019, , .		3
13	An Attention-aware Bidirectional Multi-residual Recurrent Neural Network (Abmrnn): A Study about Better Short-term Text Classification. , 2019, , .		16
14	A Queryable Graph Representation of Vascular Connectivity in the Whole Mouse Brain. , 2019, 2019, 256-260.		0
15	English Out-of-Vocabulary Lexical Evaluation Task. , 2019, , .		0
16	Comparing Sample-Wise Learnability across Deep Neural Network Models. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9961-9962.	4.9	1
17	Meaning Versus Information, Prediction Versus Memory, and Question Versus Answer. , 2019, , 281-292.		0
18	Second Order Isomorphism: A Reinterpretation and Its Implications in Brain and Cognitive Sciences. , 2019, , 190-195.		3

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19	Towards An Open-Source Framework For The Analysis Of Cerebrovasculature Structure. , 2018, 2018, 570-573.		2
20	Tracing and analysis of the whole mouse brain vasculature with systematic cleaning to remove and consolidate erroneous images. , 2018, 2018, 143-146.		0
21	Data-Driven Synthetic Cerebrovascular Models For Validation Of Segmentation Algorithms. , 2018, 2018, 5154-5157.		0
22	Mapping the full vascular network in the mouse brain at submicrometer resolution. , 2017, 2017, 3309-3312.		2
23	Dynamic control using feedforward networks with adaptive delay and facilitating neural dynamics. , 2017, , .		1
24	Emergence of tool construction in an articulated limb controlled by evolved neural circuits. , 2017, , .		3
25	Biologically grounded synthetic cerebrovasculature models for validation of segmentation algorithms. , 2017, , .		1
26	Evaluating deep learning in churn prediction for everything-as-a-service in the cloud. , 2017, , .		1
27	Explanation of the perceptual oblique effect based on the fidelity of oculomotor control during saccades. , 2017, , .		0
28	Motor-based autonomous grounding in a model of the fly optic flow system. , 2016, , .		0
29	Knife-edge scanning microscopy for in silico study of cerebral blood flow: From biological imaging data to flow simulations. , 2016, 2016, 5957-5960.		1
30	Fast submicrometer-scale imaging of whole zebrafish using the knife-edge scanning microscope. , 2016, 2016, 5901-5904.		0
31	Data-Driven Sales Leads Prediction for Everything-as-a-Service in the Cloud. , 2016, , .		6
32	Learning to distinguish cerebral vasculature data from mechanical chatter in India-ink images acquired using knife-edge scanning microscopy. , 2016, 2016, 3989-3992.		0
33	25th Annual Computational Neuroscience Meeting: CNS-2016. BMC Neuroscience, 2016, 17, 54.	1.9	81
34	Analysis of tool use strategies in evolved neural circuits controlling an articulated limb. , 2016, , .		2
35	Dynamical analysis of recurrent neural circuits in articulated limb controllers for tool use. , 2016, , .		2
36	Automated neurovascular tracing and analysis of the knife-edge scanning microscope Rat Nissl data set using a computing cluster. , 2016, 2016, 6445-6448.		2

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37	Conference Report on 2015 International Joint Conference on Neural Networks (IJCNN 2015) [Conference Reports]. IEEE Computational Intelligence Magazine, 2016, 11, 8-10.	3.2	0
38	Random-forest-based automated cell detection in Knife-Edge Scanning Microscope rat Nissl data. , 2015, , .		2
39	Real-time detection of imaging errors in the Knife-Edge Scanning Microscope through change detection. , 2015, , .		0
40	Emergence of tool use in an articulated limb controlled by evolved neural circuits. , 2015, , .		5
41	A Digital Liquid State Machine With Biologically Inspired Learning and Its Application to Speech Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2635-2649.	11.3	130
42	Anti-Hebbian Learning. , 2015, , 191-193.		1
43	Extracting Clinical Relations in Electronic Health Records Using Enriched Parse Trees. Procedia Computer Science, 2015, 53, 274-283.	2.0	6
44	Reconstruction, Techniques and Validation. , 2015, , 2591-2593.		0
45	Hebbian Learning. , 2015, , 1305-1309.		3
46	Brain Atlases. , 2015, , 434-434.		0
47	Physical Sectioning Microscopy. , 2015, , 2376-2379.		0
48	Connectome, Mouse. , 2015, , 807-810.		0
49	Computational Neuroanatomy: Overview. , 2015, , 24-26.		0
50	Connectome, General. , 2015, , 798-806.		0
51	Predictable internal brain dynamics in EEG and its relation to conscious states. Frontiers in Neurobotics, 2014, 8, 18.	2.8	13
52	A microchip for quantitative analysis of CNS axon growth under localized biomolecular treatments. Journal of Neuroscience Methods, 2014, 221, 166-174.	2.5	58
53	Context-sensitive intra-class clustering. Pattern Recognition Letters, 2014, 37, 85-93.	4.2	0
54	Hebbian Learning. , 2014, , 1-5.		4

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55	Anti-Hebbian Learning. , 2014, , 1-4.		3
56	Toward embodied artificial cognition: TIME is on my side. Frontiers in Neurorobotics, 2014, 8, 25.	2.8	2
57	Reconstruction, Techniques, and Validation. , 2014, , 1-3.		0
58	Connectome, Mouse. , 2014, , 1-4.		0
59	Connectome, General. , 2014, , 1-11.		1
60	Development of Target Reaching Gesture Map in the Cortex and Its Relation to the Motor Map: A Simulation Study. Advances in Intelligent Systems and Computing, 2014, , 187-197.	0.6	0
61	Computational Neuroanatomy: Overview. , 2014, , 1-3.		0
62	Physical Sectioning Microscopy. , 2014, , 1-4.		2
63	Parameter Learning for Alpha Integration. Neural Computation, 2013, 25, 1585-1604.	2.2	14
64	Autonomous and Interactive Improvement of Binocular Visual Depth Estimation through Sensorimotor Interaction. IEEE Transactions on Autonomous Mental Development, 2013, 5, 74-84.	1.6	7
65	Scalable, incremental learning with MapReduce parallelization for cell detection in high-resolution 3D microscopy data. , 2013, , .		3
66	TIME, CONSCIOUSNESS, AND MIND UPLOADING. International Journal of Machine Consciousness, 2012, 04, 257-274.	1.0	13
67	Evolution of Time in Neural Networks: From the Present to the Past, and Forward to the Future. , 2012, , 99-115.		1
68	Knife-edge scanning microscopy for connectomics research. , 2011, , .		7
69	Fast macro-scale transmission imaging of microvascular networks using KESM. Biomedical Optics Express, 2011, 2, 2888.	2.9	34
70	Specimen Preparation, Imaging, and Analysis Protocols for Knife-edge Scanning Microscopy. Journal of Visualized Experiments, 2011, , .	0.3	11
71	Multiscale Exploration of Mouse Brain Microstructures Using the Knife-Edge Scanning Microscope Brain Atlas. Frontiers in Neuroinformatics, 2011, 5, 29.	2.5	26
72	Emergence of Memory in Reactive Agents Equipped With Environmental Markers. IEEE Transactions on Autonomous Mental Development, 2011, 3, 257-271.	1.6	13

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73	Automated cropping and artifact removal for knife-edge scanning microscopy. , 2011, , .		2
74	Fast cell detection in high-throughput imagery using GPU-accelerated machine learning. , 2011, , .		10
75	Ground Truth Estimation by Maximizing Topological Agreements in Electron Microscopy Data. Lecture Notes in Computer Science, 2011, , 371-380.	1.3	1
76	An Interactive Editing Framework for Electron Microscopy Image Segmentation. Lecture Notes in Computer Science, 2011, , 400-409.	1.3	3
77	Charting out the octopus connectome at submicron resolution using the knife-edge scanning microscope. BMC Neuroscience, 2010, 11, .	1.9	5
78	Neural conduction delay forces the emergence of predictive function in simulated evolution. BMC Neuroscience, 2010, 11, .	1.9	2
79	Simultaneous grounding and receptive field learning in visuomotor agents. BMC Neuroscience, 2010, 11, .	1.9	0
80	Grounding the meaning of non-prototypical smiles on motor behavior. Behavioral and Brain Sciences, 2010, 33, 453-454.	0.7	0
81	Alpha-integration of multiple evidence. , 2010, , .		3
82	Predictive internal neural dynamics for delay compensation. , 2010, , .		1
83	Reconstruction of neuronal morphologies from electron microscopy images using graph cuts. BMC Neuroscience, 2010, 11, .	1.9	0
84	Prenatal to postnatal transfer of motor skills through motor-compatible sensory representations. , 2010, , .		4
85	Manifold Alpha-Integration. Lecture Notes in Computer Science, 2010, , 397-408.	1.3	4
86	Electron Microscopy Image Segmentation with Graph Cuts Utilizing Estimated Symmetric Three-Dimensional Shape Prior. Lecture Notes in Computer Science, 2010, , 322-331.	1.3	2
87	Fast and accurate retinal vasculature tracing and kernel-Isomap-based feature selection. , 2009, , .		5
88	A local maximum intensity projection tracing of vasculature in Knife-Edge Scanning Microscope volume data. , 2009, , .		1
89	Facilitating neural dynamics for delay compensation: A road to predictive neural dynamics?. Neural Networks, 2009, 22, 267-276.	5.9	8
90	Emergence of Memory-like Behavior in Reactive Agents Using External Markers. , 2009, , .		9

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91	Tactile or visual?: Stimulus characteristics determine receptive field type in a self-organizing map model of cortical development. , 2009, , .		2
92	3D volume extraction of densely packed cells in EM data stack by forward and backward graph cuts. , 2009, , .		4
93	Evolution of recollection and prediction in neural networks. , 2009, , .		17
94	Cell tracking and segmentation in electron microscopy images using graph cuts. , 2009, , .		10
95	Self-Organization of Tactile Receptive Fields: Exploring Their Textural Origin and Their Representational Properties. Lecture Notes in Computer Science, 2009, , 228-236.	1.3	0
96	Relative advantage of touch over vision in the exploration of texture. , 2008, , .		2
97	Effects of varying the delay distribution in random, scale-free, and small-world networks. , 2008, , .		1
98	Internal state predictability as an evolutionary precursor of self-awareness and agency. , 2008, , .		6
99	Motor system’s role in grounding, receptive field development, and shape recognition. , 2008, , .		5
100	Extrapolative Delay Compensation Through Facilitating Synapses and Its Relation to the Flash-Lag Effect. IEEE Transactions on Neural Networks, 2008, 19, 1678-1688.	4.2	14
101	Kernel oriented discriminant analysis for speaker-independent phoneme spaces. , 2008, , .		0
102	AUTONOMOUS LEARNING OF THE SEMANTICS OF INTERNAL SENSORY STATES BASED ON MOTOR EXPLORATION. International Journal of Humanoid Robotics, 2007, 04, 211-243.	1.1	19
103	Enhanced Facilitatory Neuronal Dynamics for Delay Compensation. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	3
104	Segmentation of textures defined on flat vs. layered surfaces using neural networks: Comparison of 2D vs. 3D representations. Neurocomputing, 2007, 70, 2245-2255.	5.9	5
105	How neural is the neural blackboard architecture?. Behavioral and Brain Sciences, 2006, 29, 72-73.	0.7	0
106	A Neural Model of the Scintillating Grid Illusion: Disinhibition and Self-Inhibition in Early Vision. Neural Computation, 2006, 18, 521-544.	2.2	11
107	Facilitating neural dynamics for delay compensation and prediction in evolutionary neural networks. , 2006, , .		6
108	Delay Compensation Through Facilitating Synapses and STDP: A Neural Basis for Orientation Flash-Lag Effect. , 2006, , .		1

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109	Contour integration and segmentation with self-organized lateral connections. <i>Biological Cybernetics</i> , 2004, 90, 75-88.	1.3	28
110	The Role of Temporal Parameters in a Thalamocortical Model of Analogy. <i>IEEE Transactions on Neural Networks</i> , 2004, 15, 1071-1082.	4.2	10
111	Analogical cascade: a theory on the role of the thalamo-cortical loop in brain function. <i>Neurocomputing</i> , 2003, 52-54, 713-719.	5.9	5
112	Effects of presynaptic and postsynaptic resource redistribution in Hebbian weight adaptation. <i>Neurocomputing</i> , 2000, 32-33, 77-82.	5.9	2
113	Modeling Self-Organization in the Visual Cortex. , 1999, , 243-252.		0
114	Self-organization and segmentation in a laterally connected orientation map of spiking neurons. <i>Neurocomputing</i> , 1998, 21, 139-158.	5.9	41
115	Facilitatory neural activity compensating for neural delays as a potential cause of the flash-lag effect. , 0, , .		4
116	Delay Compensation Through Facilitating Synapses and STDP: A Neural Basis for Orientation Flash-Lag Effect. , 0, , .		0