Yukie Nagai

List of Publications by Year
in descending order

88	1,191	687363 13	501196 28
papers	citations	h-index	g-index

91	91	91	982
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploration With Intrinsic Motivation Using Objectâ€“Actionâ€“Outcome Latent Space. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 325-336.	3.8	1
2	A Predictive Coding Account for Cognition in Human Children and Chimpanzees: A Case Study of Drawing. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1306-1319.	3.8	23
3	Abnormal cortical responses elicited by audiovisual movies in patients with autism spectrum disorder with atypical sensory behavior: A magnetoencephalographic study. Brain and Development, 2022, 44, 81-94.	1.1	4
4	Imitation and mirror systems in robots through Deep Modality Blending Networks. Neural Networks, 2022, 146, 22-35.	5.9	10
5	Special issue on Symbol Emergence in Robotics and Cognitive Systems (I). Advanced Robotics, 2022, 36, 1-2.	1.8	0
6	ASD Perception Simulator: Extension and Bridging to Daily Support. , 2022, , .		0
7	Special issue on symbol emergence in robotics and cognitive systems (II). Advanced Robotics, 2022, 36, 217-218.	1.8	0
8	Effect Regulated Projection of Robotâ€™s Action Space for Production and Prediction of Manipulation Primitives Through Learning Progress and Predictability-Based Exploration. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 286-297.	3.8	3
9	Developmental Robotics and its Role Towards Artificial General Intelligence. KI - Kunstliche Intelligenz, 2021, 35, 5-7.	3.2	0
10	Statistical Properties of Musical Creativity: Roles of Hierarchy and Uncertainty in Statistical Learning. Frontiers in Neuroscience, 2021, 15, 640412.	2.8	8
11	Importance of environmental settings for the temporal dynamics of creativity. Thinking Skills and Creativity, 2021, 41, 100911.	3.5	7
12	World model learning and inference. Neural Networks, 2021, 144, 573-590.	5.9	28
13	Active Inference Through Energy Minimization in Multimodal Affective Humanâ€“Robot Interaction. Frontiers in Robotics and AI, 2021, 8, 684401.	3.2	7
14	A Computational Model for Child Inferences of Word Meanings via Syntactic Categories for Different Ages and Languages. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 401-416.	3.8	1
15	A review on neural network models of schizophrenia and autism spectrum disorder. Neural Networks, 2020, 122, 338-363.	5.9	101
16	Deficits in Prediction Ability Trigger Asymmetries in Behavior and Internal Representation. Frontiers in Psychiatry, 2020, 11, 564415.	2.6	6
17	Picture completion reveals developmental change in representational drawing ability: An analysis using a convolutional neural network. , 2020, , .		3
18	Learning Timescales in Gated and Adaptive Continuous Time Recurrent Neural Networks. , 2020, , .		4

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19	Childrenâ€™s scale errors are a natural consequence of learning to associate objects with actions: A computational model. Developmental Science, 2019, 22, e12777.	2.4	2
20	How development in the Bayesian brain facilitates learning. , 2019, , .		4
21	Cultural differences in speed adaptation in human-robot interaction tasks. Paladyn, 2019, 10, 256-266.	2.7	5
22	Lesser suppression of response to bright visual stimuli and visual abnormality in children with autism spectrum disorder: a magnetoencephalographic study. Journal of Neurodevelopmental Disorders, 2019, 11, 9.	3.1	4
23	Predictive learning: its key role in early cognitive development. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180030.	4.0	47
24	Affordance-based altruistic robotic architecture for humanâ€“robot collaboration. Adaptive Behavior, 2019, 27, 223-241.	1.9	7
25	A predictive coding model of representational drawing in human children and chimpanzees. , 2019, , .		8
26	Learning for Goal-Directed Actions Using RNNPB: Developmental Change of â€œWhat to Imitateâ€• IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 545-556.	3.8	9
27	Modeling Development of Multimodal Emotion Perception Guided by Tactile Dominance and Perceptual Improvement. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 762-775.	3.8	18
28	Improving interactive reinforcement learning: What makes a good teacher?. Connection Science, 2018, 30, 306-325.	3.0	25
29	Prediction Error in the PMd As a Criterion for Biological Motion Discrimination: A Computational Account. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 237-249.	3.8	2
30	Modeling the Development of Infant Imitation using Inverse Reinforcement Learning. , 2018, , .		0
31	Understanding the cognitive mechanisms underlying autistic behavior: a recurrent neural network study. , 2018, , .		22
32	Proprioceptive Feedback Plays a Key Role in Self-Other Differentiation. , 2018, , .		0
33	Effects of Throughput Delay on Perception of Robot Teleoperation and Head Control Precision in Remote Monitoring Tasks. Presence: Teleoperators and Virtual Environments, 2018, 27, 226-241.	0.6	5
34	Efficient human-robot collaboration: When should a robot take initiative?. International Journal of Robotics Research, 2017, 36, 563-579.	8.5	55
35	Active Perception based on Energy Minimization in Multimodal Human-robot Interaction. , 2017, , .		5
36	Motor development facilitates the prediction of others' actions through sensorimotor predictive learning. , 2016, , .		23

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37	EmoSonics. , 2016, , .		4
38	Panoramic view reconstruction for stereoscopic teleoperation of a humanoid robot. , 2016, , .		11
39	Initiative in robot assistance during collaborative task execution. , 2016, , .		53
40	Imitation of human expressions based on emotion estimation by mental simulation. Paladyn, 2016, 7, .	2.7	13
41	Emergence of Altruistic Behavior Through the Minimization of Prediction Error. IEEE Transactions on Cognitive and Developmental Systems, 2016, 8, 141-151.	3.8	25
42	HRI'16 chairs' welcome. , 2016, , .		0
43	Mechanism for Cognitive Development. , 2016, , 51-72.		2
44	Yet another gaze detector: An embodied calibration free system for the iCub robot. , 2015, , .		11
45	Infant's action skill dynamically modulates parental action demonstration in the dyadic interaction. Developmental Science, 2015, 18, 1006-1013.	2.4	26
46	Use of speech and motion cues for bootstrapping complex action learning in iCub. , 2015, , .		0
47	Motor experience alters action perception through predictive learning of sensorimotor information. , 2015, , .		2
48	Gaze contingency in turn-taking for human robot interaction: Advantages and drawbacks. , 2015, , .		11
49	Parental scaffolding as a bootstrapping mechanism for learning grasp affordances and imitation skills. Robotica, 2015, 33, 1163-1180.	1.9	21
50	Staged Development of Robot Skills: Behavior Formation, Affordance Learning and Imitation with Motionese. IEEE Transactions on Autonomous Mental Development, 2015, 7, 119-139.	1.6	63
51	A Gaze-contingent Dictating Robot to Study Turn-taking. , 2015, , .		14
52	Session details: Session G: Multi-modal Capabilities. , 2015, , .		0
53	Contact force estimation from flexible tactile sensor values considering hysteresis by Gaussian process. , 2014, , .		2
54	Autism simulator employing augmented reality: A prototype. , 2014, , .		10

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55	HRI. , 2014, , .		2
56	Prediction error minimization for emergence of altruistic behavior. , 2014, , .		8
57	Computational model for syntactic development: Identifying how children learn to generalize nouns and verbs for different languages. , 2014, , .		2
58	Compensation for tactile hysteresis using Gaussian process with sensory Markov property. , 2014, , .		4
59	Development of goal-directed gaze shift based on predictive learning. , 2014, , .		3
60	A model for biological motion detection based on motor prediction in the dorsal premotor area. , 2014, , .		2
61	3P2-Q04 The Role of Visual Saliency Model in Coordinative Eye and Hand Movement : Towards Applications to Retinal Prostheses(Neurorobotics & Cognitive Robotics). The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2014, 2014, _3P2-Q04_1-_3P2-Q04_3.	0.0	0
62	1P1-X08 A Magnetic Type Tactile Sensor using Magnetorheological Elastomers(Tactile and Force) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 2014, 2014, _1P1-X08_1-_1P1-X08_3.	0.0	0
63	3P2-P06 A Computational Model of Early Development of Predictive Eye Movement(Neurorobotics &) Tj ETQq1 1 0.784314 rgBT /Overl (Robomec), 2014, 2014, _3P2-P06_1-_3P2-P06_4.	0.0	0
64	Developmental Dynamics of RNNPB: New Insight about Infant Action Development. Lecture Notes in Computer Science, 2014, , 144-153.	1.3	1
65	3P2-P05 A Computational Model for Local Processing Bias in Autism Spectrum Disorders(Neurorobotics & Cognitive Robotics). The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2014, 2014, _3P2-P05_1-_3P2-P05_4.	0.0	0
66	Action understanding using an adaptive Liquid State Machine based on environmental ambiguity. , 2013, , .		1
67	The significance of social input, early motion experiences, and attentional selection. , 2013, , .		2
68	Touch and emotion: Modeling of developmental differentiation of emotion lead by tactile dominance. , 2013, , .		2
69	Throwing Skill Optimization through Synchronization and Desynchronization of Degree of Freedom. Lecture Notes in Computer Science, 2013, , 178-189.	1.3	5
70	The influence of infants' object manipulation on parents' action demonstration. The Proceedings of the Annual Convention of the Japanese Psychological Association, 2013, 77, 1PM-095-1PM-095.	0.0	0
71	Perceptual development triggered by its self-organization in cognitive learning. , 2012, , .		8
72	Co-development of information transfer within and between infant and caregiver. , 2012, , .		8

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73	The role of temporal variance in motions for the emergence of mirror neurons systems. , 2012, , .		2
74	Why Not Artificial Sympathy?. Lecture Notes in Computer Science, 2012, , 278-287.	1.3	5
75	2A1-M11 Maturational Constraints Lifted by Self-Organization in Perceptual Space for Cognitive Learning(Neurorobotics & Cognitive Robotics). The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2012, 2012, _2A1-M11_1-_2A1-M11_4.	0.0	0
76	Learning to grasp with parental scaffolding. , 2011, , .		10
77	Emergence of mirror neuron system: Immature vision leads to self-other correspondence. , 2011, , .		41
78	The role of expectations in intuitive human-robot interaction. , 2011, , .		1
79	A Perceptual Memory System for Affordance Learning in Humanoid Robots. Lecture Notes in Computer Science, 2011, , 349-356.	1.3	1
80	From bottom-Up visual attention to robot action learning. , 2009, , .		29
81	Stability and sensitivity of bottom-up visual attention for dynamic scene analysis. , 2009, , .		5
82	Computational Analysis of Motionese Toward Scaffolding Robot Action Learning. IEEE Transactions on Autonomous Mental Development, 2009, 1, 44-54.	1.6	69
83	Parental action modification highlighting the goal versus the means. , 2008, , .		7
84	Learning for joint attention helped by functional development. Advanced Robotics, 2006, 20, 1165-1181.	1.8	69
85	Emergence of Joint Attention through Bootstrap Learning based on the Mechanisms of Visual Attention and Learning with Self-evaluation. Transactions of the Japanese Society for Artificial Intelligence, 2004, 19, 10-19.	0.1	2
86	A constructive model for the development of joint attention. Connection Science, 2003, 15, 211-229.	3.0	182
87	Acquisition of Joint Attention by a Developmental Learning Model based on Interactions between a Robot and a Caregiver.. Transactions of the Japanese Society for Artificial Intelligence, 2003, 18, 122-130.	0.1	3
88	Simulating Developmental and Individual Differences of Drawing Behavior in Children Using a Predictive Coding Model. Frontiers in Neurorobotics, 0, 16, .	2.8	0