

Yasuo Kuniyoshi

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

3,062
citations

361413

20
h-index

276875

41
g-index

157
all docs

157
docs citations

157
times ranked

2041
citing authors

#	ARTICLE	IF	CITATIONS
1	Skeletonizing the Dynamics of Soft Continuum Body from Video. <i>Soft Robotics</i> , 2022, 9, 201-211.	8.0	4
2	A mechanical true random number generator. <i>New Journal of Physics</i> , 2022, 24, 013019.	2.9	2
3	Behavioral Diversity Generated From Body-Environment Interactions in a Simulated Tensegrity Robot. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 1597-1604.	5.1	3
4	An Actuation System using a Hydrostatic Skeleton and a Shape Memory Alloy for Earthworm-like Soft Robots. , 2022, , .		1
5	Transient chaos in bidirectional encoder representations from transformers. <i>Physical Review Research</i> , 2022, 4, .	3.6	1
6	Proposal of Manufacturing Method for New Passive Elastic Joint and Prototype of Human Phantom. <i>Journal of Robotics and Mechatronics</i> , 2022, 34, 402-412.	1.0	0
7	Self-Organization of Physics-Informed Mechanisms in Recurrent Neural Networks: A Case Study in Pneumatic Artificial Muscles. , 2022, , .		3
8	Physics-Informed Recurrent Neural Networks for Soft Pneumatic Actuators. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 6862-6869.	5.1	17
9	Memory-based gaze prediction in deep imitation learning for robot manipulation. , 2022, , .		3
10	Construction and Evaluation of QOL Specialized Dictionary SqolDic Using Vocabulary Meaning and QOL Scale. <i>Electronics (Switzerland)</i> , 2021, 10, 417.	3.1	2
11	Modularized genotype combination to design multiobjective soft-bodied robots. , 2021, , .		1
12	Model-Free Reinforcement Learning with Ensemble for a Soft Continuum Robot Arm. , 2021, , .		14
13	Gaze-Based Dual Resolution Deep Imitation Learning for High-Precision Dexterous Robot Manipulation. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 1630-1637.	5.1	11
14	Competitive physical interaction by reinforcement learning agents using intention estimation. , 2021, , .		0
15	Blower-Powered Soft Inflatable Joints for Physical Human-Robot Interaction. <i>Frontiers in Robotics and AI</i> , 2021, 8, 720683.	3.2	4
16	Wireless Powered Dielectric Elastomer Actuator. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 7278-7284.	5.1	2
17	Immediate Generation of Jump-and-Hit Motions by a Pneumatic Humanoid Robot Using a Lookup Table of Learned Dynamics. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5557-5564.	5.1	9
18	Transformer-based deep imitation learning for dual-arm robot manipulation. , 2021, , .		12

#	ARTICLE	IF	CITATIONS
19	Unsupervised Temporal Segmentation Using Models That Discriminate Between Demonstrations and Unintentional Actions. , 2021, , .		0
20	Physics-informed reservoir computing with autonomously switching readouts: a case study in pneumatic artificial muscles. , 2021, , .		6
21	Direct evidence of EEG coherence in alleviating phantom limb pain by virtual referred sensation: Case report. <i>Neurocase</i> , 2020, 26, 55-59.	0.6	13
22	Emulating a sensor using soft material dynamics: A reservoir computing approach to pneumatic artificial muscle. , 2020, , .		13
23	Designing spontaneous behavioral switching via chaotic itinerancy. <i>Science Advances</i> , 2020, 6, .	10.3	26
24	Estimation of Mental Health Quality of Life using Visual Information during Interaction with a Communication Agent. , 2020, , .		2
25	Reward sensitivity differs depending on global self-esteem in value-based decision-making. <i>Scientific Reports</i> , 2020, 10, 21525.	3.3	3
26	New telecare approach based on 3D convolutional neural network for estimating quality of life. <i>Neurocomputing</i> , 2020, 397, 464-476.	5.9	7
27	Spike-induced ordering: Stochastic neural spikes provide immediate adaptability to the sensorimotor system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12486-12496.	7.1	7
28	Using Human Gaze to Improve Robustness Against Irrelevant Objects in Robot Manipulation Tasks. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4415-4422.	5.1	10
29	Identifying Critical States by the Action-Based Variance of Expected Return. <i>Lecture Notes in Computer Science</i> , 2020, , 366-378.	1.3	2
30	Spiking Neurons Ensemble for Movement Generation in Dynamically Changing Environments. , 2020, , .		0
31	Adversarial Imitation Learning between Agents with Different Numbers of State Dimensions. , 2019, , .		0
32	High-Speed Humanoid Robot Arm for Badminton Using Pneumatic-Electric Hybrid Actuators. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 3601-3608.	5.1	25
33	Low-pressure Soft Inflatable Joint Driven by Inner Tendon. , 2019, , .		7
34	Fusing autonomy and sociality via embodied emergence and development of behaviour and cognition from fetal period. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180031.	4.0	18
35	Generating an image of an object's appearance from somatosensory information during haptic exploration. , 2019, , .		0
36	Ready Posture for Rapid Reaction of Badminton Robot Arm. , 2019, , .		0

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37	Spike Timing Dependent Plasticity Enhances Integrated Information at the EEG Level: A Large-scale Brain Simulation Experiment. , 2019, , .		0
38	Purposive learning: Robot reasoning about the meanings of human activities. Science Robotics, 2019, 4, .	17.6	21
39	Stapedial reflex threshold predicts individual loudness tolerance for people with autistic spectrum disorders. Experimental Brain Research, 2019, 237, 91-100.	1.5	6
40	Soft bodies as input reservoir: role of softness from the viewpoint of reservoir computing. , 2019, , .		2
41	High-speed flexible arm to reduce the effect of spinning ball in table tennis. , 2019, , .		0
42	Anthropomorphic Face Robot having Soft Mouth Mechanism with Embedded Artificial Facial Muscles. , 2019, , .		2
43	High-Speed and Lightweight Humanoid Robot Arm for a Skillful Badminton Robot. IEEE Robotics and Automation Letters, 2018, 3, 1727-1734.	5.1	28
44	Coordinated Use of Structure-Integrated Bistable Actuation Modules for Agile Locomotion. IEEE Robotics and Automation Letters, 2018, 3, 1018-1024.	5.1	18
45	Species-specific Posture of Human Foetus in Late First Trimester. Scientific Reports, 2018, 8, 27.	3.3	3
46	Sequential Jumping-Stepping Motion on Musculoskeletal Humanoid Robot for Agile Locomotion. , 2018, , .		1
47	A Telecare System that Estimates Quality of Life through Communication. , 2018, , .		6
48	Development of a Musculoskeletal Humanoid Robot as a Platform for Biomechanical Research on the Underwater Dolphin Kick. , 2018, , .		3
49	Ceiling continuum arm with extensible pneumatic actuators for desktop workspace. , 2018, , .		14
50	Environmental and Structural Effects on Physical Reservoir Computing with Tensegrity. Journal of the Institute of Industrial Applications Engineers, 2018, 6, 92-99.	0.2	4
51	Somatosensory Feedback to the Cheek During Virtual Visual Feedback Therapy Enhances Pain Alleviation for Phantom Arms. Neurorehabilitation and Neural Repair, 2017, 31, 717-725.	2.9	35
52	Humanoid robot performing jump-and-hit motions using structure-integrated pneumatic cable cylinders. , 2017, , .		3
53	A translational model to determine rodent's age from human foetal age. Scientific Reports, 2017, 7, 17248.	3.3	25
54	Single laser to multiple optical fiber device for optogenetics-based epidural spinal cord stimulation. , 2017, , .		2

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55	Bilateral teleoperation system for a musculoskeletal robot arm using a musculoskeletal exoskeleton. , 2017, , .		1
56	Bodily motion fluctuation improves reaching success rate in a neurophysical agent via geometric-stochastic resonance. PLoS ONE, 2017, 12, e0188298.	2.5	0
57	An Embodied Brain Model of the Human Foetus. Scientific Reports, 2016, 6, 27893.	3.3	90
58	Tactile feedback for relief of deafferentation pain using virtual reality system: a pilot study. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 61.	4.6	28
59	Developmental changes in intralimb coordination during spontaneous movements of human infants from 2 to 3 months of age. Experimental Brain Research, 2016, 234, 2179-2188.	1.5	8
60	Musculoskeletal quadruped robot with Torque-Angle Relationship Control System. , 2016, , .		4
61	Pole vaulting robot with dual articulated arms that can change reaching position using active bending motion. , 2015, , .		5
62	Multimodal virtual reality platform for the rehabilitation of phantom limb pain. , 2015, , .		24
63	Structured movement representations of a phantom limb associated with phantom limb pain. Neuroscience Letters, 2015, 605, 7-11.	2.1	16
64	Active bending motion of pole vault robot to improve reachable height. , 2014, , .		5
65	Hard negative classes for multiple object detection. , 2014, , .		3
66	A musculoskeletal bipedal robot designed with angle-dependent moment arm for dynamic motion from multiple states. Advanced Robotics, 2014, 28, 487-496.	1.8	11
67	ADJUSTMENT OF PRESSURE IN ANTAGONISTIC JOINTS WITH PNEUMATIC ARTIFICIAL MUSCLES FOR RAPID REACTING MOTIONS. , 2014, , .		0
68	Learning from Examples: Imitation Learning and Emerging Cognition. Frontiers in Neuroengineering Series, 2014, , 233-249.	0.4	3
69	A new "grasping by caging" solution by using eigen-shapes and space mapping. , 2013, , .		18
70	Effect of preliminary motions on agile motions. , 2013, , .		2
71	Modeling the Minimal Newborn's Intersubjective Mind: The Visuotopic-Somatotopic Alignment Hypothesis in the Superior Colliculus. PLoS ONE, 2013, 8, e69474.	2.5	23
72	On the caging region of a third finger with object boundary clouds and two given contact positions. , 2012, , .		9

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73	Cooperative manipulation with least number of robots via robust caging. , 2012, , .		12
74	Visual anomaly detection from small samples for mobile robots. , 2012, , .		3
75	Analysis of bidirectional information transfer on drumming ensemble using robotic session system. , 2012, , .		0
76	Grasping by caging: A promising tool to deal with uncertainty. , 2012, , .		34
77	Biomechanical Approach to Open-Loop Bipedal Running with a Musculoskeletal Athlete Robot. Advanced Robotics, 2012, 26, 383-398.	1.8	58
78	Is the developmental order of fetal behaviors self-organized in an uterine environment?. , 2012, , .		1
79	Growth of stochastic resonance in neuronal ensembles with the input signal intensity. Physical Review E, 2012, 86, 011922.	2.1	5
80	Scale and rotation invariant color features for weakly-supervised object Learning in 3D space. , 2011, , .		5
81	Evaluation of action-similarity awareness effect in rhythm ensemble co-creation. , 2011, , .		1
82	Modeling the cholinergic innervation in the infant cortico-hippocampal system and its contribution to early memory development and attention. , 2011, , .		3
83	Visual anomaly detection under temporal and spatial non-uniformity for news finding robot. , 2011, , .		2
84	Neural-body coupling for emergent locomotion: A musculoskeletal quadruped robot with spinobulbar model. , 2011, , .		19
85	Neural-body coupling for emergent locomotion: A musculoskeletal quadruped robot with spinobulbar model. , 2011, , .		14
86	Neural network-based multiple robot Simultaneous Localization and Mapping. , 2011, , .		1
87	Visual anomaly detection under temporal and spatial non-uniformity for news finding robot. , 2011, , .		0
88	Dense Sampling Low-Level Statistics of Local Features. IEICE Transactions on Information and Systems, 2010, E93-D, 1727-1736.	0.7	3
89	Image Annotation and Retrieval for Weakly Labeled Images Using Conceptual Learning. New Generation Computing, 2010, 28, 277-298.	3.3	5
90	Partial matching of real textured 3D objects using color cubic higher-order local auto-correlation features. Visual Computer, 2010, 26, 1269-1281.	3.5	16

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91	Creating and modulating rhythms by controlling the physics of the body. <i>Autonomous Robots</i> , 2010, 28, 317-329.	4.8	12
92	A human fetus development simulation: Self-organization of behaviors through tactile sensation. , 2010, , .		43
93	A Method for Sustaining Consistent Sensory-Motor Coordination under Body Property Changes Including Tool Grasp/Release. <i>Advanced Robotics</i> , 2010, 24, 687-717.	1.8	5
94	High-speed 3D object recognition using additive features in a linear subspace. , 2010, , .		5
95	Athlete Robot with applied human muscle activation patterns for bipedal running. , 2010, , .		77
96	Whole Body Haptics for Augmented Humanoid Task Capabilities. <i>Springer Tracts in Advanced Robotics</i> , 2010, , 61-73.	0.4	3
97	Image annotation and retrieval based on efficient learning of contextual latent space. , 2009, , .		10
98	Co-creation of human-robot interaction rules through response prediction and habituation/dishabituation. , 2009, , .		6
99	Wearable motion capture suit with full-body tactile sensors. , 2009, , .		33
100	Analyzing the "knack" of human piggyback motion based on simultaneous measurement of tactile and movement data as a basis for humanoid control. , 2009, , .		2
101	Academic Roadmap in Integrated Information Field. <i>Advanced Robotics</i> , 2009, 23, 1465-1474.	1.8	0
102	Autonomous Adaptive Emergent Systems. <i>Advanced Robotics</i> , 2009, 23, 1481-1485.	1.8	1
103	Cognitive Developmental Robotics: A Survey. <i>IEEE Transactions on Autonomous Mental Development</i> , 2009, 1, 12-34.	1.6	472
104	Analyzing the "knacks" of transferring human and developing a two-body integrated model as a basis for humanoid control. , 2009, , .		2
105	AI Goggles: Real-time Description and Retrieval in the Real World with Online Learning. , 2009, , .		10
106	A tactile distribution sensor which enables stable measurement under high and dynamic stretch. , 2009, , .		52
107	Towards Computational Developmental Model based on Synthetic Approaches. , 2009, , .		1
108	Smart extraction of desired object from color-distance image with user's tiny scribble. , 2008, , .		5

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109	Lifting techniques for the humanoid robots: insights from human movements. , 2008, , .		7
110	A Neural Model for Exploration and Learning of Embodied Movement Patterns. Journal of Robotics and Mechatronics, 2008, 20, 358-366.	1.0	7
111	Autonomous Adaptive Emergent Systems. Journal of the Robotics Society of Japan, 2008, 26, 744-745.	0.1	1
112	Academic Roadmap in Information Complex Field. Journal of the Robotics Society of Japan, 2008, 26, 738-741.	0.1	0
113	Development of Wireless Networked Tiny Orientation Device for Wearable Motion Capture and Measurement of Walking Around, Walking Up and Down, and Jumping Tasks. , 2007, , .		8
114	Emergence and development of embodied cognition: a constructivist approach using robots. Progress in Brain Research, 2007, 164, 425-445.	1.4	25
115	Falling motion control for humanoid robots while walking. , 2007, , .		28
116	Journalist robot: robot system making news articles from real world. , 2007, , .		28
117	A deformable and deformation sensitive tactile distribution sensor. , 2007, , .		61
118	Online gait planning with Dynamical 3D-Symmetrization method. , 2007, , .		16
119	A highly stretchable tactile distribution sensor for smooth surfaced humanoids. , 2007, , .		51
120	On the Information Theoretic Implications of Embodiment “ Principles and Methods. , 2007, , 76-86.		24
121	A Tactile Distribution Sensor Based on Inverse Problem Theory. Journal of the Robotics Society of Japan, 2007, 25, 960-969.	0.1	1
122	Adaptive and Emergent Imitation as the Fundamental of Humanoid Intelligence. Journal of the Robotics Society of Japan, 2007, 25, 671-677.	0.1	4
123	Computational Model of Tool-Body Assimilation based on Object Identification. Journal of the Robotics Society of Japan, 2007, 25, 897-905.	0.1	1
124	Linear Discrimination Analysis of Monkey Behavior in an Alternative Free Choice Task. Journal of Robotics and Mechatronics, 2007, 19, 416-422.	1.0	0
125	A Cognitive Architecture for Flexible Imitative Interaction Using Tools and Objects. , 2006, , .		3
126	Early motor development from partially ordered neural-body dynamics: experiments with a cortico-spinal-musculo-skeletal model. Biological Cybernetics, 2006, 95, 589-605.	1.3	90

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127	Automatic motion generation exploiting the global structure of nonlinear dynamics based on finite-time reachability. <i>Robotics and Autonomous Systems</i> , 2006, 54, 696-705.	5.1	1
128	Adaptive body schema for robotic tool-use. <i>Advanced Robotics</i> , 2006, 20, 1105-1126.	1.8	53
129	Dynamic Roll-and-Rise Motion by an Adult-Size Humanoid Robot. <i>Journal of the Robotics Society of Japan</i> , 2005, 23, 706-717.	0.1	10
130	Classification of Motion Constraints by Explorative Manipulation by a Compliant Multi-Fingered Hand. <i>Journal of Robotics and Mechatronics</i> , 2005, 17, 645-654.	1.0	3
131	DYNAMIC ROLL-AND-RISE MOTION BY AN ADULT-SIZE HUMANOID ROBOT. <i>International Journal of Humanoid Robotics</i> , 2004, 01, 497-516.	1.1	17
132	Embodied basis of invariant features in execution and perception of whole-body dynamic actions—knacks and focuses of Roll-and-Rise motion. <i>Robotics and Autonomous Systems</i> , 2004, 48, 189-201.	5.1	67
133	The ETL-Humanoid system—a high-performance full-body humanoid system for versatile real-world interaction. <i>Advanced Robotics</i> , 2003, 17, 149-164.	1.8	17
134	Continuous humanoid interaction:. <i>Robotics and Autonomous Systems</i> , 2001, 37, 161-183.	5.1	33
135	Cognitive developmental robotics as a new paradigm for the design of humanoid robots. <i>Robotics and Autonomous Systems</i> , 2001, 37, 185-193.	5.1	342
136	Three Dimensional Bipedal Stepping Motion using Neural Oscillators. Towards Humanoid Motion in the Real World.. <i>Journal of the Robotics Society of Japan</i> , 2000, 18, 87-93.	0.1	18
137	Cognitive Robotics. Toward cognitive robotics.. <i>Journal of the Robotics Society of Japan</i> , 1999, 17, 2-6.	0.1	7
138	Cognitive Robotics. Towards emergence of embodied interaction dynamics.. <i>Journal of the Robotics Society of Japan</i> , 1999, 17, 29-33.	0.1	3
139	Why is cognitive robotics promising?. <i>Journal of the Robotics Society of Japan</i> , 1999, 17, 38-43.	0.1	0
140	Emergence and Categorization of Coordinated Visual Behavior Through Embodied Interaction. <i>Autonomous Robots</i> , 1998, 5, 369-379.	4.8	9
141	Evolvable hardware: A robot navigation system testbed. <i>New Generation Computing</i> , 1998, 16, 97-122.	3.3	4
142	Mobile sensing robots for nuclear power plant inspection. <i>Advanced Robotics</i> , 1998, 13, 355-356.	1.8	0
143	The robocup physical agent challenge: Phase i. <i>Applied Artificial Intelligence</i> , 1998, 12, 251-263.	3.2	29
144	Online Evolution for a Self-Adapting Robotic Navigation System Using Evolvable Hardware. <i>Artificial Life</i> , 1998, 4, 359-393.	1.3	33

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145	Fusing autonomy and sociability in robots. , 1997, , .		6
146	RoboCup. , 1997, , .		422
147	Robot Contests. Research Activity and Robot Contest (RoboCup).. Journal of the Robotics Society of Japan, 1997, 15, 13-16.	0.1	0
148	Humanoid Robots. Humanoid Interaction Research.. Journal of the Robotics Society of Japan, 1997, 15, 979-982.	0.1	1
149	Active stereo vision system with foveated wide angle lenses. Lecture Notes in Computer Science, 1996, , 191-200.	1.3	29
150	Implementation of a distributed controller for the RWC dexterous hand. Robotics and Autonomous Systems, 1996, 18, 13-19.	5.1	6
151	Learning to coordinate behaviors for robot navigation. Advanced Robotics, 1995, 10, 143-159.	1.8	9
152	Real-time Binocular Tracking Based on Virtual Horopter.. Journal of the Robotics Society of Japan, 1995, 13, 683-690.	0.1	6
153	A Compact Mobile Robot With Binocular Tracking Vision.. Journal of the Robotics Society of Japan, 1995, 13, 343-346.	0.1	2
154	Future Robots in Frontier Research and Science Fictions.. Journal of the Robotics Society of Japan, 1994, 12, 368-388.	0.1	0
155	Teaching by Showing: Generating Robot Command Sequences Based on Real Time Visual Recognition of Human Pick and Place Actions.. Journal of the Robotics Society of Japan, 1991, 9, 295-303.	0.1	7