

Erhan Oztop

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,275
citations

393982

19
h-index

329751

37
g-index

81
all docs

81
docs citations

81
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	Schema design and implementation of the grasp-related mirror neuron system. <i>Biological Cybernetics</i> , 2002, 87, 116-140.	0.6	255
2	Mirror neurons and imitation: A computationally guided review. <i>Neural Networks</i> , 2006, 19, 254-271.	3.3	254
3	Synthetic brain imaging: grasping, mirror neurons and imitation. <i>Neural Networks</i> , 2000, 13, 975-997.	3.3	227
4	Mental state inference using visual control parameters. <i>Cognitive Brain Research</i> , 2005, 22, 129-151.	3.3	185
5	Mirror neurons: Functions, mechanisms and models. <i>Neuroscience Letters</i> , 2013, 540, 43-55.	1.0	129
6	Reinforcement learning to adjust parametrized motor primitives to new situations. <i>Autonomous Robots</i> , 2012, 33, 361-379.	3.2	128
7	Teaching robots to cooperate with humans in dynamic manipulation tasks based on multi-modal human-in-the-loop approach. <i>Autonomous Robots</i> , 2014, 36, 123-136.	3.2	114
8	HUMAN-ROBOT HUMANOID INTERACTION: IS A HUMANOID ROBOT PERCEIVED AS A HUMAN?. <i>International Journal of Humanoid Robotics</i> , 2005, 02, 537-559.	0.6	101
9	Infant grasp learning: a computational model. <i>Experimental Brain Research</i> , 2004, 158, 480-503.	0.7	100
10	Goal emulation and planning in perceptual space using learned affordances. <i>Robotics and Autonomous Systems</i> , 2011, 59, 580-595.	3.0	73
11	Staged Development of Robot Skills: Behavior Formation, Affordance Learning and Imitation with Motionese. <i>IEEE Transactions on Autonomous Mental Development</i> , 2015, 7, 119-139.	2.3	63
12	Symbol Emergence in Cognitive Developmental Systems: A Survey. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2019, 11, 494-516.	2.6	53
13	A kernel-based approach to direct action perception. , 2012, , .		47
14	From self-observation to imitation: Visuomotor association on a robotic hand. <i>Brain Research Bulletin</i> , 2008, 75, 775-784.	1.4	42
15	Cognition-Enabled Robot Manipulation in Human Environments: Requirements, Recent Work, and Open Problems. <i>IEEE Robotics and Automation Magazine</i> , 2017, 24, 108-122.	2.2	37
16	Unconstrained Real-time Markerless Hand Tracking for Humanoid Interaction. , 2006, , .		28
17	Repulsive attractive network for baseline extraction on document images. <i>Signal Processing</i> , 1999, 75, 1-10.	2.1	26
18	Human Adaptation to Human-Robot Shared Control. <i>IEEE Transactions on Human-Machine Systems</i> , 2019, 49, 126-136.	2.5	25

#	ARTICLE	IF	CITATIONS
19	Self-discovery of motor primitives and learning grasp affordances. , 2012, , .		24
20	Dexterous Skills Transfer by Extending Human Body Schema to a Robotic Hand. , 2006, , .		21
21	Parental scaffolding as a bootstrapping mechanism for learning grasp affordances and imitation skills. <i>Robotica</i> , 2015, 33, 1163-1180.	1.3	21
22	A computational model of anterior intraparietal (AIP) neurons. <i>Neurocomputing</i> , 2006, 69, 1354-1361.	3.5	20
23	A shared control method for online human-in-the-loop robot learning based on Locally Weighted Regression. , 2016, , .		20
24	Model free head pose estimation using stereovision. <i>Pattern Recognition</i> , 2012, 45, 33-42.	5.1	18
25	Human motor adaptation in whole body motion. <i>Scientific Reports</i> , 2016, 6, 32868.	1.6	17
26	Unsupervised learning of object affordances for planning in a mobile manipulation platform. , 2011, , .		13
27	Human-In-The-Loop Control and Task Learning for Pneumatically Actuated Muscle Based Robots. <i>Frontiers in Neurorobotics</i> , 2018, 12, 71.	1.6	13
28	Going beyond the perception of affordances: Learning how to actualize them through behavioral parameters. , 2011, , .		12
29	Robotic grasping and manipulation through human visuomotor learning. <i>Robotics and Autonomous Systems</i> , 2012, 60, 441-451.	3.0	12
30	Emotion as an emergent phenomenon of the neurocomputational energy regulation mechanism of a cognitive agent in a decision-making task. <i>Adaptive Behavior</i> , 2021, 29, 55-71.	1.1	11
31	Learning to grasp with parental scaffolding. , 2011, , .		10
32	Sequential decision making based on emergent emotion for a humanoid robot. , 2016, , .		10
33	Modeling robot trust based on emergent emotion in an interactive task. , 2021, , .		10
34	Imitation and mirror systems in robots through Deep Modality Blending Networks. <i>Neural Networks</i> , 2022, 146, 22-35.	3.3	10
35	An Upper Bound on the Minimum Number of Monomials Required to Separate Dichotomies of $\{\hat{a}^{*1}, 1\}^n$. <i>Neural Computation</i> , 2006, 18, 3119-3138.	1.3	9
36	Extensive Human Training for Robot Skill Synthesis: Validation on a Robotic Hand. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	9

#	ARTICLE	IF	CITATIONS
37	Trust me! I am a robot: an affective computational account of scaffolding in robot-robot interaction. , 2021, , .		8
38	Learning feature representations for an object recognition system. , 2006, , .		7
39	Sign-representation of Boolean functions using a small number of monomials. Neural Networks, 2009, 22, 938-948.	3.3	7
40	Action and Language Mechanisms in the Brain: Data, Models and Neuroinformatics. Neuroinformatics, 2014, 12, 209-225.	1.5	7
41	Cooperative multi-task assignment for heterogonous UAVs. , 2015, , .		7
42	Affordance-based altruistic robotic architecture for humanâ€“robot collaboration. Adaptive Behavior, 2019, 27, 223-241.	1.1	7
43	The development of grasping and the mirror system. , 2006, , 397-423.		6
44	Emergent emotion via neural computational energy conservation on a humanoid robot. , 2013, , .		6
45	Minimal Sign Representation of Boolean Functions: Algorithms and Exact Results for Low Dimensions. Neural Computation, 2015, 27, 1796-1823.	1.3	6
46	Predicting future object states using learned affordances. , 2009, , .		5
47	Structured unsupervised kernel regression for closed-loop motion control. , 2010, , .		5
48	Simultaneous human-robot adaptation for effective skill transfer. , 2015, , .		4
49	Synergistic human-robot shared control via human goal estimation. , 2016, , .		4
50	Force Reference Extraction via Human Interaction for a Robotic Polishing Task: Force-Induced Motion. , 2019, , .		4
51	Exploiting similarities for robot perception. , 2007, , .		3
52	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.	2.6	3
53	Environmental force estimation for a robotic hand: Compliant contact detection. , 2015, , .		2
54	From Biologically Realistic Imitation to Robot Teaching Via Human Motor Learning. Lecture Notes in Computer Science, 2008, , 214-221.	1.0	2

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55	High-level representations through unconstrained sensorimotor learning. , 2020, , .		2
56	High-level features for resource economy and fast learning in skill transfer. Advanced Robotics, 2022, 36, 291-303.	1.1	2
57	Task dependent human-like grasping. , 2008, , .		1
58	Models for the control of grasping. , 0, , 110-124.		1
59	Neural representation in F5: cross-decoding from observation to execution. BMC Neuroscience, 2015, 16, .	0.8	1
60	Adaptive Inverse Kinematics of a 9-DOF Surgical Robot for Effective Manipulation. , 2019, , .		1
61	Inferring Cost Functions Using Reward Parameter Search and Policy Gradient Reinforcement Learning. , 2021, , .		1
62	Combined weight and density bounds on the polynomial threshold function representation of Boolean functions. Discrete Mathematics, 2022, 345, 112912.	0.4	1
63	Conceptual and Computational Models of Mirror Neurons. The Brain & Neural Networks, 2005, 12, 61-73.	0.1	0
64	Improving balance regulation in visuo-motor control for humanoid robots. , 2009, , .		0
65	Effective Robot Skill Synthesis via Divided Control. , 2018, , .		0
66	Modeling the Development of Infant Imitation using Inverse Reinforcement Learning. , 2018, , .		0
67	Guest Editorial Special Issue on Continual Unsupervised Sensorimotor Learning. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 234-238.	2.6	0
68	An Ecologically Valid Reference Frame for Perspective Invariant Action Recognition. , 2021, , .		0
69	Inverse Kinematics of Humanoid-Robot Reaching through Human Visuo-Motor Learning. , 2010, , 341-348.		0
70	Humanoid Brain Science. Frontiers in Neuroengineering Series, 2014, , 29-46.	0.4	0
71	Algorithms for Obtaining Parsimonious Higher Order Neurons. Lecture Notes in Computer Science, 2017, , 146-154.	1.0	0
72	On the Co-absence of Input Terms in Higher Order Neuron Representation of Boolean Functions. Lecture Notes in Computer Science, 2017, , 362-370.	1.0	0

#	ARTICLE	IF	CITATIONS
73	Lifelong Robot Learning. , 2021, , 1-12.		0