

Majid

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

669
citations

15
h-index

23
g-index

78
ext. papers

872
ext. citations

4
avg, IF

4.27
L-index

#	Paper	IF	Citations
65	Learning to Integrate an Artificial Sensory Device: How Bayesian Integration May Lead to Non-Optimal Perception. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022 , 1-1	3	
64	Human-in-the-Loop Weight Compensation in Upper Limb Wearable Robots Towards Total Muscles Effort Minimization. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 3273-3278	4.2	
63	Effects of methylphenidate on reinforcement learning depend on working memory capacity. <i>Psychopharmacology</i> , 2021 , 238, 3569-3584	4.7	0
62	Simulation-based biomechanical assessment of unpowered exoskeletons for running. <i>Scientific Reports</i> , 2021 , 11, 11846	4.9	3
61	Unidirectional Compliance to Improve Natural Dynamics Modification for Energy Efficiency. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	
60	Adaptation in a variable parallel elastic actuator for rotary mechanisms towards energy efficiency. <i>Robotics and Autonomous Systems</i> , 2021 , 143, 103815	3.5	1
59	Profile Design of Parallel Rotary Compliance for Energy Efficiency in Cyclic Tasks. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 142-151	5.5	5
58	Clustering subspace generalization to obtain faster reinforcement learning. <i>Evolving Systems</i> , 2020 , 11, 89-103	2.1	
57	Feedback From Mono-Articular Muscles is Sufficient for Exoskeleton Torque Adaptation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 2097-2106	4.8	8
56	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1541-1552	5.5	14
55	Multi-representational learning for Offline Signature Verification using Multi-Loss Snapshot Ensemble of CNNs. <i>Expert Systems With Applications</i> , 2019 , 133, 317-330	7.8	21
54	Concurrent design of controller and passive elements for robots with impulsive actuation systems. <i>Control Engineering Practice</i> , 2019 , 86, 166-174	3.9	3
53	Exploiting Generalization in the Subspaces for Faster Model-Based Reinforcement Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1635-1650	10.3	6
52	Multimodal Simon Effect: A Multimodal Extension of the Diffusion Model for Conflict Tasks. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 507	3.3	3
51	How does transient signaling input affect the spike timing of postsynaptic neuron near the threshold regime: an analytical study. <i>Journal of Computational Neuroscience</i> , 2018 , 44, 147-171	1.4	2
50	Reducing the Energy Cost of Human Running Using an Unpowered Exoskeleton. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 2026-2032	4.8	56
49	RLSP: a signal prediction algorithm for energy conservation in wireless sensor networks. <i>Wireless Networks</i> , 2017 , 23, 919-933	2.5	4

48	Compliance and frequency optimization for energy efficiency in cyclic tasks. <i>Robotica</i> , 2017 , 35, 2363-2380		7
47	Benefiting From Kinematic Redundancy Alongside Mono- and Biarticular Parallel Compliances for Energy Efficiency in Cyclic Tasks. <i>IEEE Transactions on Robotics</i> , 2017 , 33, 1088-1102	6.5	10
46	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1059-1070	5.5	21
45	Metacognitive Deficiency in a Perceptual but Not a Memory Task in Methadone Maintenance Patients. <i>Scientific Reports</i> , 2017 , 7, 7052	4.9	15
44	Adaptive Natural Oscillator to exploit natural dynamics for energy efficiency. <i>Robotics and Autonomous Systems</i> , 2017 , 97, 51-60	3.5	15
43	Multisensory Perception of Contradictory Information in an Environment of Varying Reliability: Evidence for Conscious Perception and Optimal Causal Inference. <i>Scientific Reports</i> , 2017 , 7, 3167	4.9	11
42	Inverse Kinematics Based Human Mimicking System using Skeletal Tracking Technology. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 85, 27-45	2.9	23
41	Attention control learning in the decision space using state estimation. <i>International Journal of Systems Science</i> , 2016 , 47, 1659-1674	2.3	4
40	Estimation of Depth and Length of Defects From Magnetic Flux Leakage Measurements: Verification With Simulations, Experiments, and Piggings Data. <i>IEEE Transactions on Magnetics</i> , 2016 , 1-1 ²		21
39	Temporal dynamics of visual category representation in the macaque inferior temporal cortex. <i>Journal of Neurophysiology</i> , 2016 , 116, 587-601	3.2	13
38	Attention Cueing and Activity Equally Reduce False Alarm Rate in Visual-Auditory Associative Learning through Improving Memory. <i>PLoS ONE</i> , 2016 , 11, e0157680	3.7	
37	Design and modeling of a compact rotational nonlinear spring 2016 ,		5
36	2016 ,		3
35	Equality bias impairs collective decision-making across cultures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3835-40	11.5	48
34	Object Manipulation Using Unlimited Rolling Contacts: 2-D Kinematic Modeling and Motion Planning. <i>IEEE Transactions on Robotics</i> , 2015 , 31, 790-797	6.5	0
33	Continuous reinforcement learning to robust fault tolerant control for a class of unknown nonlinear systems. <i>Applied Soft Computing Journal</i> , 2015 , 37, 702-714	7.5	6
32	A Computational Approach towards Visual Object Recognition at Taxonomic Levels of Concepts. <i>Computational Intelligence and Neuroscience</i> , 2015 , 2015, 905421	3	3
31	Bandit-based local feature subset selection. <i>Neurocomputing</i> , 2014 , 138, 371-382	5.4	7

30	FPGA implementation of a biological neural network based on the Hodgkin-Huxley neuron model. <i>Frontiers in Neuroscience</i> , 2014 , 8, 379	5.1	27
29	Reward maximization justifies the transition from sensory selection at childhood to sensory integration at adulthood. <i>PLoS ONE</i> , 2014 , 9, e103143	3.7	8
28	Context transfer in reinforcement learning using action-value functions. <i>Computational Intelligence and Neuroscience</i> , 2014 , 2014, 428567	3	5
27	Natural dynamics modification for energy efficiency: A data-driven parallel compliance design method 2014 ,		14
26	Piecewise linear spine for speed-energy efficiency trade-off in quadruped robots. <i>Robotics and Autonomous Systems</i> , 2013 , 61, 1350-1359	3.5	22
25	Conceptual Imitation Learning Based on Perceptual and Functional Characteristics of Action. <i>IEEE Transactions on Autonomous Mental Development</i> , 2013 , 5, 311-325		6
24	Defect detection and width estimation in natural gas pipelines using MFL signals 2013 ,		10
23	Automatic calibration of an air hockey robot 2013 ,		1
22	Compliant hip function simplifies control for hopping and running 2013 ,		6
21	Computational model of excitatory/inhibitory ratio imbalance role in attention deficit disorders. <i>Journal of Computational Neuroscience</i> , 2012 , 33, 389-404	1.4	11
20	Controllers for robust hopping with upright trunk based on the Virtual Pendulum concept 2012 ,		17
19	Attention control with reinforcement learning for face recognition under partial occlusion. <i>Machine Vision and Applications</i> , 2011 , 22, 337-348	2.8	10
18	Effect of flexible spine on stability of a passive quadruped robot: Experimental results 2011 ,		18
17	Analogy between Juggling and Hopping: Active Object Manipulation Approach. <i>Advanced Robotics</i> , 2011 , 25, 1793-1816	1.7	3
16	Wheel-Based Climbing Robot: Modeling and Control. <i>Advanced Robotics</i> , 2010 , 24, 1313-1343	1.7	21
15	Directed Random Subspace Method for Face Recognition 2010 ,		5
14	Online learning of task-driven object-based visual attention control. <i>Image and Vision Computing</i> , 2010 , 28, 1130-1145	3.7	46
13	Concurrent learning of task and attention control in the decision space 2009 ,		3

12	Optimal Local Basis: A Reinforcement Learning Approach for Face Recognition. <i>International Journal of Computer Vision</i> , 2009 , 81, 191-204	10.6	30
11	Fuzzy Sarsa Learning and the proof of existence of its stationary points. <i>Asian Journal of Control</i> , 2008 , 10, 535-549	1.7	24
10	A hybrid model for face recognition using facial components 2007 ,		2
9	A BIOLOGICALLY INSPIRED METHOD FOR CONCEPTUAL IMITATION USING REINFORCEMENT LEARNING. <i>Applied Artificial Intelligence</i> , 2007 , 21, 155-183	2.3	13
8	A Bayesian approach to conceptualization using reinforcement learning 2007 ,		3
7	Toward a Society Oriented Approach for Fault Handling in Multi-Agent Systems 2007 ,		2
6	Manipulation by juggling of planar polygonal objects using two 3-DOF manipulators 2007 ,		8
5	Swarm contours: A fast self-organization approach for snake initialization. <i>Complexity</i> , 2006 , 12, 41-52	1.6	7
4	Path planning of the Nonholonomic Pole Climbing Robot UT-PCR 2006 ,		5
3	Increasing the robustness of Acrobot walking control using compliant mechanisms		1
2	A Kinematic Index for Estimation of Metabolic Rate Reduction in Running with I-RUN		1
1	Human-in-the-Loop Weight Compensation in Upper Limb Wearable Robots Towards Total Muscles Effort Minimization		1