

Majid

List of Publications by Citations

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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 | 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 |
| 64 | 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 |
| 63 | Online learning of task-driven object-based visual attention control. <i>Image and Vision Computing</i> , 2010 , 28, 1130-1145 | 3.7 | 46 |
| 62 | Optimal Local Basis: A Reinforcement Learning Approach for Face Recognition. <i>International Journal of Computer Vision</i> , 2009 , 81, 191-204 | 10.6 | 30 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | . <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1059-1070 | 5.5 | 21 |
| 56 | 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 |
| 55 | Estimation of Depth and Length of Defects From Magnetic Flux Leakage Measurements: Verification With Simulations, Experiments, and Pigging Data. <i>IEEE Transactions on Magnetics</i> , 2016 , 1-1 ² | | 21 |
| 54 | Wheel-Based Climbing Robot: Modeling and Control. <i>Advanced Robotics</i> , 2010 , 24, 1313-1343 | 1.7 | 21 |
| 53 | Effect of flexible spine on stability of a passive quadruped robot: Experimental results 2011 , | | 18 |
| 52 | Controllers for robust hopping with upright trunk based on the Virtual Pendulum concept 2012 , | | 17 |
| 51 | Metacognitive Deficiency in a Perceptual but Not a Memory Task in Methadone Maintenance Patients. <i>Scientific Reports</i> , 2017 , 7, 7052 | 4.9 | 15 |
| 50 | Adaptive Natural Oscillator to exploit natural dynamics for energy efficiency. <i>Robotics and Autonomous Systems</i> , 2017 , 97, 51-60 | 3.5 | 15 |
| 49 | . <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1541-1552 | 5.5 | 14 |

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|----|--|------|----|
| 48 | Natural dynamics modification for energy efficiency: A data-driven parallel compliance design method 2014 , | | 14 |
| 47 | Temporal dynamics of visual category representation in the macaque inferior temporal cortex. <i>Journal of Neurophysiology</i> , 2016 , 116, 587-601 | 3.2 | 13 |
| 46 | A BIOLOGICALLY INSPIRED METHOD FOR CONCEPTUAL IMITATION USING REINFORCEMENT LEARNING. <i>Applied Artificial Intelligence</i> , 2007 , 21, 155-183 | 2.3 | 13 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | Defect detection and width estimation in natural gas pipelines using MFL signals 2013 , | | 10 |
| 41 | Attention control with reinforcement learning for face recognition under partial occlusion. <i>Machine Vision and Applications</i> , 2011 , 22, 337-348 | 2.8 | 10 |
| 40 | 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 |
| 39 | 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 |
| 38 | Manipulation by juggling of planar polygonal objects using two 3-DOF manipulators 2007 , | | 8 |
| 37 | Compliance and frequency optimization for energy efficiency in cyclic tasks. <i>Robotica</i> , 2017 , 35, 2363-2380 | | 7 |
| 36 | Bandit-based local feature subset selection. <i>Neurocomputing</i> , 2014 , 138, 371-382 | 5.4 | 7 |
| 35 | Swarm contours: A fast self-organization approach for snake initialization. <i>Complexity</i> , 2006 , 12, 41-52 | 1.6 | 7 |
| 34 | 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 |
| 33 | Conceptual Imitation Learning Based on Perceptual and Functional Characteristics of Action. <i>IEEE Transactions on Autonomous Mental Development</i> , 2013 , 5, 311-325 | | 6 |
| 32 | Compliant hip function simplifies control for hopping and running 2013 , | | 6 |
| 31 | 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 |

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|----|--|-----|---|
| 30 | Context transfer in reinforcement learning using action-value functions. <i>Computational Intelligence and Neuroscience</i> , 2014 , 2014, 428567 | 3 | 5 |
| 29 | Directed Random Subspace Method for Face Recognition 2010 , | | 5 |
| 28 | Path planning of the Nonholonomic Pole Climbing Robot UT-PCR 2006 , | | 5 |
| 27 | 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 |
| 26 | Design and modeling of a compact rotational nonlinear spring 2016 , | | 5 |
| 25 | RLSP: a signal prediction algorithm for energy conservation in wireless sensor networks. <i>Wireless Networks</i> , 2017 , 23, 919-933 | 2.5 | 4 |
| 24 | Attention control learning in the decision space using state estimation. <i>International Journal of Systems Science</i> , 2016 , 47, 1659-1674 | 2.3 | 4 |
| 23 | 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 |
| 22 | 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 |
| 21 | A Computational Approach towards Visual Object Recognition at Taxonomic Levels of Concepts. <i>Computational Intelligence and Neuroscience</i> , 2015 , 2015, 905421 | 3 | 3 |
| 20 | Concurrent learning of task and attention control in the decision space 2009 , | | 3 |
| 19 | Analogy between Juggling and Hopping: Active Object Manipulation Approach. <i>Advanced Robotics</i> , 2011 , 25, 1793-1816 | 1.7 | 3 |
| 18 | A Bayesian approach to conceptualization using reinforcement learning 2007 , | | 3 |
| 17 | Simulation-based biomechanical assessment of unpowered exoskeletons for running. <i>Scientific Reports</i> , 2021 , 11, 11846 | 4.9 | 3 |
| 16 | 2016 , | | 3 |
| 15 | 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 |
| 14 | A hybrid model for face recognition using facial components 2007 , | | 2 |
| 13 | Toward a Society Oriented Approach for Fault Handling in Multi-Agent Systems 2007 , | | 2 |

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|----|--|-----|---|
| 12 | Automatic calibration of an air hockey robot 2013 , | | 1 |
| 11 | Increasing the robustness of Acrobot walking control using compliant mechanisms | | 1 |
| 10 | A Kinematic Index for Estimation of Metabolic Rate Reduction in Running with I-RUN | | 1 |
| 9 | Human-in-the-Loop Weight Compensation in Upper Limb Wearable Robots Towards Total Muscles□ Effort Minimization | | 1 |
| 8 | 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 |
| 7 | 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 |
| 6 | Effects of methylphenidate on reinforcement learning depend on working memory capacity. <i>Psychopharmacology</i> , 2021 , 238, 3569-3584 | 4.7 | 0 |
| 5 | 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 | |
| 4 | 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 | |
| 3 | 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 | |
| 2 | Clustering subspace generalization to obtain faster reinforcement learning. <i>Evolving Systems</i> , 2020 , 11, 89-103 | 2.1 | |
| 1 | Unidirectional Compliance to Improve Natural Dynamics Modification for Energy Efficiency. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1 | 5.5 | |