Yingbai Hu

List of Publications by Year
in descending order

30 papers	1,185 citations	471509 17 h-index	526287 27 g-index
30 all docs	30 docs citations	30 times ranked	877 citing authors

#	Article	IF	Citations
1	Improved recurrent neural network-based manipulator control with remote center of motion constraints: Experimental results. Neural Networks, 2020, 131, 291-299.	5.9	166
2	Reinforcement Learning of Manipulation and Grasping Using Dynamical Movement Primitives for a Humanoidlike Mobile Manipulator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 121-131.	5.8	142
3	Neural fuzzy approximation enhanced autonomous tracking control of the wheel-legged robot under uncertain physical interaction. Neurocomputing, 2020, 410, 342-353.	5.9	114
4	Fuzzy-Torque Approximation-Enhanced Sliding Mode Control for Lateral Stability of Mobile Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2491-2500.	9.3	108
5	An Incremental Learning Framework for Human-Like Redundancy Optimization of Anthropomorphic Manipulators. IEEE Transactions on Industrial Informatics, 2022, 18, 1864-1872.	11.3	90
6	Ankle Joint Torque Estimation Using an EMG-Driven Neuromusculoskeletal Model and an Artificial Neural Network Model. IEEE Transactions on Automation Science and Engineering, 2021, 18, 564-573.	5.2	50
7	Development of Sensory-Motor Fusion-Based Manipulation and Grasping Control for a Robotic Hand-Eye System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-12.	9.3	46
8	Deep C-LSTM Neural Network for Epileptic Seizure and Tumor Detection Using High-Dimension EEG Signals. IEEE Access, 2020, 8, 37495-37504.	4.2	43
9	Neural Approximation-based Model Predictive Tracking Control of Non-holonomic Wheel-legged Robots. International Journal of Control, Automation and Systems, 2021, 19, 372-381.	2.7	43
10	Evolution Strategies Learning With Variable Impedance Control for Grasping Under Uncertainty. IEEE Transactions on Industrial Electronics, 2019, 66, 7788-7799.	7.9	42
11	Design and Control of a Highly Redundant Rigid-flexible Coupling Robot to Assist the COVID-19 Oropharyngeal-Swab Sampling. IEEE Robotics and Automation Letters, 2022, 7, 1856-1863.	5.1	39
12	Nonlinear Model Predictive Control for Mobile Medical Robot Using Neural Optimization. IEEE Transactions on Industrial Electronics, 2021, 68, 12636-12645.	7.9	33
13	Towards Model-Free Tool Dynamic Identification and Calibration Using Multi-Layer Neural Network. Sensors, 2019, 19, 3636.	3.8	32
14	Internet of Things (IoT)-based Collaborative Control of a Redundant Manipulator for Teleoperated Minimally Invasive Surgeries. , 2020, , .		32
15	Skill Learning Strategy Based on Dynamic Motion Primitives for Human–Robot Cooperative Manipulation. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 105-117.	3.8	31
16	A novel autonomous learning framework to enhance sEMG-based hand gesture recognition using depth information. Biomedical Signal Processing and Control, 2021, 66, 102444.	5.7	27
17	Cooperative Manipulation for a Mobile Dual-Arm Robot Using Sequences of Dynamic Movement Primitives. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 18-29.	3.8	23
18	A novel muscle-computer interface for hand gesture recognition using depth vision. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 5569-5580.	4.9	20

#	Article	IF	Citations
19	Novel Design and Lateral Stability Tracking Control of a Four-Wheeled Rollator. Applied Sciences (Switzerland), 2019, 9, 2327.	2.5	17
20	Event-Based Robotic Grasping Detection With Neuromorphic Vision Sensor and Event-Grasping Dataset. Frontiers in Neurorobotics, 2020, 14, 51.	2.8	17
21	Novel Design and Adaptive Fuzzy Control of a Lower-Limb Elderly Rehabilitation. Electronics (Switzerland), 2020, 9, 343.	3.1	16
22	NeuroGrasp: Multimodal Neural Network With Euler Region Regression for Neuromorphic Vision-Based Grasp Pose Estimation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	16
23	Mobile Robot Learning from Human Demonstrations with Nonlinear Model Predictive Control. , 2019, , .		10
24	Experimental validation of manipulability optimization control of a 7â€DoF serial manipulator for robotâ€assisted surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, 1-11.	2.3	7
25	Integrated Task Sensing and Whole Body Control for Mobile Manipulation With Series Elastic Actuators. IEEE Transactions on Automation Science and Engineering, 2023, 20, 413-424.	5.2	6
26	Disturbance-Observer-Based Fuzzy Control for a Robot Manipulator Using an EMG-Driven Neuromusculoskeletal Model. Complexity, 2020, 2020, 1-10.	1.6	5
27	A Novel Human-Like Control Framework for Mobile Medical Service Robot. Complexity, 2020, 2020, 1-11.	1.6	3
28	Multimodal data fusion framework enhanced robot-assisted minimally invasive surgery. Transactions of the Institute of Measurement and Control, 0, , 014233122098435.	1.7	3
29	Asymmetric Bimanual Control of Dual-arm Serial Manipulator for Robot-assisted Minimally Invasive Surgeries. Sensors and Materials, 2020, 32, 1223.	0.5	3
30	Multisensor-Based Autonomous Grasp Planning for Mobile Manipulator Navigation System with a Novel Soft Gripper. Complexity, 2020, 2020, 1-18.	1.6	1