

# Yingbai Hu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	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
4	An Incremental Learning Framework for Human-Like Redundancy Optimization of Anthropomorphic Manipulators. IEEE Transactions on Industrial Informatics, 2022, 18, 1864-1872.	11.3	90
5	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
6	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
7	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
8	Experimental validation of manipulability optimization control of a 7-DOF serial manipulator for robot-assisted surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, 1-11.	2.3	7
9	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
10	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
11	Nonlinear Model Predictive Control for Mobile Medical Robot Using Neural Optimization. IEEE Transactions on Industrial Electronics, 2021, 68, 12636-12645.	7.9	33
12	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
13	Internet of Things (IoT)-based Collaborative Control of a Redundant Manipulator for Teleoperated Minimally Invasive Surgeries. , 2020, , .		32
14	A Novel Human-Like Control Framework for Mobile Medical Service Robot. Complexity, 2020, 2020, 1-11.	1.6	3
15	Improved recurrent neural network-based manipulator control with remote center of motion constraints: Experimental results. Neural Networks, 2020, 131, 291-299.	5.9	166
16	Event-Based Robotic Grasping Detection With Neuromorphic Vision Sensor and Event-Grasping Dataset. Frontiers in Neurorobotics, 2020, 14, 51.	2.8	17
17	Disturbance-Observer-Based Fuzzy Control for a Robot Manipulator Using an EMG-Driven Neuromusculoskeletal Model. Complexity, 2020, 2020, 1-10.	1.6	5
18	Multisensor-Based Autonomous Grasp Planning for Mobile Manipulator Navigation System with a Novel Soft Gripper. Complexity, 2020, 2020, 1-18.	1.6	1

#	ARTICLE	IF	CITATIONS
19	Neural fuzzy approximation enhanced autonomous tracking control of the wheel-legged robot under uncertain physical interaction. <i>Neurocomputing</i> , 2020, 410, 342-353.	5.9	114
20	A novel muscle-computer interface for hand gesture recognition using depth vision. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 5569-5580.	4.9	20
21	Deep C-LSTM Neural Network for Epileptic Seizure and Tumor Detection Using High-Dimension EEG Signals. <i>IEEE Access</i> , 2020, 8, 37495-37504.	4.2	43
22	Novel Design and Adaptive Fuzzy Control of a Lower-Limb Elderly Rehabilitation. <i>Electronics (Switzerland)</i> , 2020, 9, 343.	3.1	16
23	Asymmetric Bimanual Control of Dual-arm Serial Manipulator for Robot-assisted Minimally Invasive Surgeries. <i>Sensors and Materials</i> , 2020, 32, 1223.	0.5	3
24	Novel Design and Lateral Stability Tracking Control of a Four-Wheeled Rollator. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2327.	2.5	17
25	Towards Model-Free Tool Dynamic Identification and Calibration Using Multi-Layer Neural Network. <i>Sensors</i> , 2019, 19, 3636.	3.8	32
26	Mobile Robot Learning from Human Demonstrations with Nonlinear Model Predictive Control. , 2019, , .		10
27	Evolution Strategies Learning With Variable Impedance Control for Grasping Under Uncertainty. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 7788-7799.	7.9	42
28	Reinforcement Learning of Manipulation and Grasping Using Dynamical Movement Primitives for a Humanoidlike Mobile Manipulator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 121-131.	5.8	142
29	Development of Sensory-Motor Fusion-Based Manipulation and Grasping Control for a Robotic Hand-Eye System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016, , 1-12.	9.3	46
30	Multimodal data fusion framework enhanced robot-assisted minimally invasive surgery. <i>Transactions of the Institute of Measurement and Control</i> , 0, , 014233122098435.	1.7	3