

# Zongwu Xie

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

456  
citations

1307366

7  
h-index

1058333

14  
g-index

42  
all docs

42  
docs citations

42  
times ranked

390  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Signal-Based Fault Detection and Tolerance Control Method of Current Sensor for PMSM Drive. IEEE Transactions on Industrial Electronics, 2018, 65, 9646-9657.	5.2	80
2	An Adaptive and Robust Edge Detection Method Based on Edge Proportion Statistics. IEEE Transactions on Image Processing, 2020, 29, 5206-5215.	6.0	55
3	Levenberg-Marquardt Based Neural Network Control for a Five-fingered Prosthetic Hand. , 0, , .		37
4	EMG Control for a Five-fingered Underactuated Prosthetic Hand Based on Wavelet Transform and Sample Entropy. , 2006, , .		35
5	Gecko-Like Dry Adhesive Surfaces and Their Applications: A Review. Journal of Bionic Engineering, 2021, 18, 1011-1044.	2.7	28
6	A Five-fingered Underactuated Prosthetic Hand Control Scheme. , 0, , .		27
7	An exoskeleton master hand for controlling DLR/HIT hand. , 2009, , .		23
8	EMG Control for a Five-fingered Prosthetic Hand Based on Wavelet Transform and Autoregressive Model. , 2006, , .		22
9	Robot learning from demonstration for path planning: A review. Science China Technological Sciences, 2020, 63, 1325-1334.	2.0	21
10	Precise semi-analytical inverse kinematic solution for 7-DOF offset manipulator with arm angle optimization. Frontiers of Mechanical Engineering, 2021, 16, 435-450.	2.5	21
11	Minimum Base Disturbance Control of Free-Floating Space Robot during Visual Servoing Pre-capturing Process. Robotica, 2020, 38, 652-668.	1.3	11
12	Robust Scalable Part-Based Visual Tracking for UAV with Background-Aware Correlation Filter. , 2018, , .		7
13	Part-Based Background-Aware Tracking for UAV With Convolutional Features. IEEE Access, 2019, 7, 79997-80010.	2.6	7
14	Fast and robust ellipse detector based on edge following method. IET Image Processing, 2019, 13, 2409-2419.	1.4	7
15	A new approach for the estimation of non-cooperative satellites based on circular feature extraction. Robotics and Autonomous Systems, 2020, 129, 103532.	3.0	7
16	Ground micro-gravity verification of free-floating non-cooperative satellite docking. , 2015, , .		6
17	Manipulator Trajectory Tracking of Fuzzy Control Based on Spatial Extended State Observer. IEEE Access, 2020, 8, 24296-24308.	2.6	6
18	Fabrication of a biomimetic controllable adhesive surface by ultraprecision multistep and layered scribing and casting molding. Science China Technological Sciences, 2021, 64, 1814-1826.	2.0	6

#	ARTICLE	IF	CITATIONS
19	An exoskeleton force feedback master finger distinguishing contact and non-contact mode. , 2009, , .		5
20	Pose measurement of a non-cooperative spacecraft based on circular features. , 2016, , .		5
21	A practical detection of non-cooperative satellite based on ellipse fitting. , 2016, , .		5
22	Trajectory planning and base attitude restoration of dual-arm free-floating space robot by enhanced bidirectional approach. Frontiers of Mechanical Engineering, 2022, 17, 1.	2.5	5
23	DSP/FPGA-based highly integrated flexible joint robot. , 2009, , .		4
24	The ground-based verification system of visual servoing control for a space robot. , 2013, , .		4
25	Design of Space Robotic Arm-Hand System and Operation Research. , 2018, , .		4
26	Kalman smoothing with soft inequality constraints for space robot teleoperation. International Journal of Advanced Robotic Systems, 2018, 15, 172988141774602.	1.3	4
27	Adaptive Controller Based on Spatial Disturbance Observer in a Microgravity Environment. Sensors, 2019, 19, 4759.	2.1	3
28	A high performance FPGA-based joint controller with hardware/software co-design method. , 2012, , .		2
29	Teleoperation of a space robot experiment system. , 2013, , .		2
30	The electrical simulator for the space station manipulator under Linux/RTAI. , 2016, , .		2
31	The Application of Acceleration-Level Quaternion Interpolation in the Visual-Servoing Process. , 2021, , .		2
32	Ground simulation experiment verification of space robot with ADAMS and Simulink co-simulation. , 2013, , .		1
33	Development of A Space Arm-Hand System for On-orbit Servicing. , 2015, , .		1
34	A noncontact robot demonstration method with human supervision. Science China Technological Sciences, 0, , 1.	2.0	1
35	Ontology-based product knowledge integration in mobile environment. , 2010, , .		0
36	Surface Sample Acquisition and Caching Device for Chinese lunar sample return plan. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Dynamics verification of free-floating space robot based on the hybrid simulation. , 2014, , .		0
38	Research on the Operation of the Capture Task in Microgravity Environment. , 2018, , .		0
39	Optimal Reaction Control for the Flexible Base Redundant Manipulator System*. , 2019, , .		0
40	Trajectory planning of robot manipulators based on unit quaternion. , 2017, , .		0
41	Research on the Calibration Method of Space Humanoid Manipulator Based on Configuration Perturbation. , 2020, , .		0
42	Joint Limit Optimal Inverse Kinematics of the 7-DoF Manipulator with Link Offset based on Semi-analytical Solution. , 2021, , .		0