

Zongwu Xie

List of Publications by Year in descending order

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papers

456
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1307594

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docs citations

42
times ranked

390
citing authors

#	ARTICLE	IF	CITATIONS
1	Trajectory planning and base attitude restoration of dual-arm free-floating space robot by enhanced bidirectional approach. <i>Frontiers of Mechanical Engineering</i> , 2022, 17, 1.	4.3	5
2	The Application of Acceleration-Level Quaternion Interpolation in the Visual-Servoing Process. , 2021, , .		2
3	Fabrication of a biomimetic controllable adhesive surface by ultraprecision multistep and layered scribing and casting molding. <i>Science China Technological Sciences</i> , 2021, 64, 1814-1826.	4.0	6
4	Precise semi-analytical inverse kinematic solution for 7-DOF offset manipulator with arm angle optimization. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 435-450.	4.3	21
5	Gecko-Like Dry Adhesive Surfaces and Their Applications: A Review. <i>Journal of Bionic Engineering</i> , 2021, 18, 1011-1044.	5.0	28
6	Joint Limit Optimal Inverse Kinematics of the 7-DoF Manipulator with Link Offset based on Semi-analytical Solution. , 2021, , .		0
7	Minimum Base Disturbance Control of Free-Floating Space Robot during Visual Servoing Pre-capturing Process. <i>Robotica</i> , 2020, 38, 652-668.	1.9	11
8	An Adaptive and Robust Edge Detection Method Based on Edge Proportion Statistics. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 5206-5215.	9.8	55
9	Robot learning from demonstration for path planning: A review. <i>Science China Technological Sciences</i> , 2020, 63, 1325-1334.	4.0	21
10	Manipulator Trajectory Tracking of Fuzzy Control Based on Spatial Extended State Observer. <i>IEEE Access</i> , 2020, 8, 24296-24308.	4.2	6
11	A new approach for the estimation of non-cooperative satellites based on circular feature extraction. <i>Robotics and Autonomous Systems</i> , 2020, 129, 103532.	5.1	7
12	Research on the Calibration Method of Space Humanoid Manipulator Based on Configuration Perturbation. , 2020, , .		0
13	Adaptive Controller Based on Spatial Disturbance Observer in a Microgravity Environment. <i>Sensors</i> , 2019, 19, 4759.	3.8	3
14	Part-Based Background-Aware Tracking for UAV With Convolutional Features. <i>IEEE Access</i> , 2019, 7, 79997-80010.	4.2	7
15	Optimal Reaction Control for the Flexible Base Redundant Manipulator System*. , 2019, , .		0
16	Fast and robust ellipse detector based on edge following method. <i>IET Image Processing</i> , 2019, 13, 2409-2419.	2.5	7
17	A Signal-Based Fault Detection and Tolerance Control Method of Current Sensor for PMSM Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 9646-9657.	7.9	80
18	Research on the Operation of the Capture Task in Microgravity Environment. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Robust Scalable Part-Based Visual Tracking for UAV with Background-Aware Correlation Filter. , 2018, , .		7
20	Design of Space Robotic Arm-Hand System and Operation Research. , 2018, , .		4
21	Kalman smoothing with soft inequality constraints for space robot teleoperation. International Journal of Advanced Robotic Systems, 2018, 15, 172988141774602.	2.1	4
22	Trajectory planning of robot manipulators based on unit quaternion. , 2017, , .		0
23	The electrical simulator for the space station manipulator under Linux/RTAI. , 2016, , .		2
24	Pose measurement of a non-cooperative spacecraft based on circular features. , 2016, , .		5
25	A practical detection of non-cooperative satellite based on ellipse fitting. , 2016, , .		5
26	Ground micro-gravity verification of free-floating non-cooperative satellite docking. , 2015, , .		6
27	Development of A Space Arm-Hand System for On-orbit Servicing. , 2015, , .		1
28	Dynamics verification of free-floating space robot based on the hybrid simulation. , 2014, , .		0
29	The ground-based verification system of visual servoing control for a space robot. , 2013, , .		4
30	Ground simulation experiment verification of space robot with ADAMS and Simulink co-simulation. , 2013, , .		1
31	Teleoperation of a space robot experiment system. , 2013, , .		2
32	Surface Sample Acquisition and Caching Device for Chinese lunar sample return plan. , 2013, , .		0
33	A high performance FPGA-based joint controller with hardware/software co-design method. , 2012, , .		2
34	Ontology-based product knowledge integration in mobile environment. , 2010, , .		0
35	An exoskeleton master hand for controlling DLR/HIT hand. , 2009, , .		23
36	DSP/FPGA-based highly integrated flexible joint robot. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
37	An exoskeleton force feedback master finger distinguishing contact and non-contact mode. , 2009, , .		5
38	EMG Control for a Five-fingered Underactuated Prosthetic Hand Based on Wavelet Transform and Sample Entropy. , 2006, , .		35
39	EMG Control for a Five-fingered Prosthetic Hand Based on Wavelet Transform and Autoregressive Model. , 2006, , .		22
40	Levenberg-Marquardt Based Neural Network Control for a Five-fingered Prosthetic Hand. , 0, , .		37
41	A Five-fingered Underactuated Prosthetic Hand Control Scheme. , 0, , .		27
42	A noncontact robot demonstration method with human supervision. Science China Technological Sciences, 0, , 1.	4.0	1