

Zhongjie Meng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5565873/publications.pdf>

Version: 2024-02-01

46
papers

1,370
citations

394421

19
h-index

377865

34
g-index

46
all docs

46
docs citations

46
times ranked

642
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact Dynamic Modeling and Adaptive Target Capturing Control for Tethered Space Robots With Uncertainties. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2260-2271.	5.8	132
2	A review of space tether in new applications. Nonlinear Dynamics, 2018, 94, 1-19.	5.2	129
3	Adaptive Postcapture Backstepping Control for Tumbling Tethered Space Robot–Target Combination. Journal of Guidance, Control, and Dynamics, 2016, 39, 150-156.	2.8	127
4	Dexterous Tethered Space Robot: Design, Measurement, Control, and Experiment. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1452-1468.	4.7	124
5	Attitude takeover control for post-capture of target spacecraft using space robot. Aerospace Science and Technology, 2016, 51, 171-180.	4.8	104
6	Adaptive control for space debris removal with uncertain kinematics, dynamics and states. Acta Astronautica, 2016, 128, 416-430.	3.2	82
7	Reconfigurable spacecraft attitude takeover control in post-capture of target by space manipulators. Journal of the Franklin Institute, 2016, 353, 1985-2008.	3.4	82
8	Coordinated stabilization of tumbling targets using tethered space manipulators. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2420-2432.	4.7	73
9	Dynamics Analysis and Controller Design for Maneuverable Tethered Space Net Robot. Journal of Guidance, Control, and Dynamics, 2017, 40, 2828-2843.	2.8	59
10	Post-capture attitude control for a tethered space robot–target combination system. Robotica, 2015, 33, 898-919.	1.9	44
11	Postcapture robust nonlinear control for tethered space robot with constraints on actuator and velocity of space tether. International Journal of Robust and Nonlinear Control, 2017, 27, 2824-2841.	3.7	41
12	Attitude control of towed space debris using only tether. Acta Astronautica, 2017, 138, 152-167.	3.2	40
13	Dynamics and configuration control of the Maneuvering-Net Space Robot System. Advances in Space Research, 2015, 55, 1004-1014.	2.6	37
14	Finite time attitude takeover control for combination via tethered space robot. Acta Astronautica, 2017, 136, 9-21.	3.2	31
15	Adaptive Neural Network Dynamic Surface Control of the Post-capture Tethered Spacecraft. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1406-1419.	4.7	27
16	Postcapture Attitude Takeover Control of a Partially Failed Spacecraft With Parametric Uncertainties. IEEE Transactions on Automation Science and Engineering, 2019, 16, 919-930.	5.2	25
17	Approach Modeling and Control of an Autonomous Maneuverable Space Net. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2651-2661.	4.7	22
18	Convolutional multi-grasp detection using grasp path for RGBD images. Robotics and Autonomous Systems, 2019, 113, 94-103.	5.1	20

#	ARTICLE	IF	CITATIONS
19	Edge-Dependent Efficient Grasp Rectangle Search in Robotic Grasp Detection. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2922-2931.	5.8	20
20	An Angles-Only Navigation and Control Scheme for Noncooperative Rendezvous Operations. IEEE Transactions on Industrial Electronics, 2019, 66, 8618-8627.	7.9	18
21	Enhanced transparency dual-user shared control teleoperation architecture with multiple adaptive dominance factors. International Journal of Control, Automation and Systems, 2017, 15, 2301-2312.	2.7	17
22	Contact Dynamics and Control for Tethered Space Net Robot. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 918-929.	4.7	16
23	Precise Angles-Only Navigation for Noncooperative Proximity Operation With Application to Tethered Space Robot. IEEE Transactions on Control Systems Technology, 2019, 27, 1139-1150.	5.2	11
24	Attitude control for tethered towing debris under actuators and dynamics uncertainty. Advances in Space Research, 2019, 64, 1286-1297.	2.6	10
25	Coordinated coupling control of tethered space robot using releasing characteristics of space tether. Advances in Space Research, 2016, 57, 1528-1542.	2.6	9
26	Reel-Based Tension Control of Tethered Space Robots. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3028-3043.	4.7	9
27	Cellular space robot and its interactive model identification for spacecraft takeover control. , 2016, , .		8
28	Adaptive anti-windup control of post-capture combination via tethered space robot. Advances in Space Research, 2019, 64, 847-860.	2.6	7
29	Detecting Graspable Rectangles of Objects in Robotic Grasping. International Journal of Control, Automation and Systems, 2020, 18, 1343-1352.	2.7	7
30	Universal Dynamic Model of the Tethered Space Robot. Journal of Aerospace Engineering, 2016, 29, .	1.4	6
31	Coordinated formation control strategy of the rotating hub-spoke tethered formation system. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 317-330.	1.3	5
32	An Energy-Based Saturated Controller for the Underactuated Tethered System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7537-7548.	9.3	5
33	Coordinated control of tethered space robot using releasing characteristics of space tether. , 2015, , .		4
34	A towing orbit transfer method of tethered space robots. , 2015, , .		4
35	Dynamics modeling and model selection of space debris removal via the Tethered Space Robot. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 1873-1897.	1.3	4
36	Adaptive Robust Control for Bimanual Cooperative Contact Teleoperation with Relative Jacobian Matrix. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 47-60.	3.4	4

#	ARTICLE	IF	CITATIONS
37	In-plane adaptive retrieval control for a noncooperative target by tethered space robots. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666948.	2.1	3
38	Spin-up Control of Tethered Space Station for Artificial Gravity Task. , 2019, , .		3
39	Shape keeping control of maneuverable tether-net space robots. , 2014, , .		1
40	A fast circle detector of non-cooperative target for Tethered Space Robot. , 2014, , .		0
41	Super-twisting-based detumbling control for space towing removal using 3-DOF tether link. , 2017, , .		0
42	Underactuated control of swing in orbit debris towing removal via tether space robots. , 2017, , .		0
43	GEO debris towing removal using reel control of tethered space robots. , 2017, , .		0
44	Inertia Parameters Identification and Control of Post-Capture Combination by Tethered Space Robot. , 2018, , .		0
45	Adaptive attitude takeover control for noncooperative targets using robust allocation. , 2018, , .		0
46	An Indirect Control Method to Stabilize Tension in the Process of Towing Transfer. , 2019, , .		0