# Zhongjie Meng

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | 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 |
| 2 | Edge-Dependent Efficient Grasp Rectangle Search in Robotic Grasp Detection. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2922-2931. | 5.8 | 20 |
| 3 | 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 |
| 4 | Detecting Graspable Rectangles of Objects in Robotic Grasping. International Journal of Control, Automation and Systems, 2020, 18, 1343-1352. | 2.7 | 7 |
| 5 | Reel-Based Tension Control of Tethered Space Robots. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3028-3043. | 4.7 | 9 |
| 6 | 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 |
| 7 | Contact Dynamics and Control for Tethered Space Net Robot. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 918-929. | 4.7 | 16 |
| 8 | Adaptive anti-windup control of post-capture combination via tethered space robot. Advances in Space Research, 2019, 64, 847-860. | 2.6 | 7 |
| 9 | Attitude control for tethered towing debris under actuators and dynamics uncertainty. Advances in Space Research, 2019, 64, 1286-1297. | 2.6 | 10 |
| 10 | Spin-up Control of Tethered Space Station for Artificial Gravity Task. , 2019, , . | | 3 |
| 11 | An Indirect Control Method to Stabilize Tension in the Process of Towing Transfer. , 2019, , . | | 0 |
| 12 | 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 |
| 13 | An Angles-Only Navigation and Control Scheme for Noncooperative Rendezvous Operations. IEEE Transactions on Industrial Electronics, 2019, 66, 8618-8627. | 7.9 | 18 |
| 14 | Convolutional multi-grasp detection using grasp path for RGBD images. Robotics and Autonomous Systems, 2019, 113, 94-103. | 5.1 | 20 |
| 15 | 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 |
| 16 | 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 |
| 17 | Inertia Parameters Identification and Control of Post-Capture Combination by Tethered Space Robot. , 2018, , . | | 0 |
| 18 | Adaptive attitude takeover control for noncooperative targets using robust allocation. , 2018, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A review of space tether in new applications. Nonlinear Dynamics, 2018, 94, 1-19. | 5.2 | 129 |
| 20 | Dexterous Tethered Space Robot: Design, Measurement, Control, and Experiment. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1452-1468. | 4.7 | 124 |
| 21 | Finite time attitude takeover control for combination via tethered space robot. Acta Astronautica, 2017, 136, 9-21. | 3.2 | 31 |
| 22 | Attitude control of towed space debris using only tether. Acta Astronautica, 2017, 138, 152-167. | 3.2 | 40 |
| 23 | 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 |
| 24 | Dynamics Analysis and Controller Design for Maneuverable Tethered Space Net Robot. Journal of Guidance, Control, and Dynamics, 2017, 40, 2828-2843. | 2.8 | 59 |
| 25 | Approach Modeling and Control of an Autonomous Maneuverable Space Net. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2651-2661. | 4.7 | 22 |
| 26 | 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 |
| 27 | 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 |
| 28 | Super-twisting-based detumbling control for space towing removal using 3-DOF tether link. , 2017, , . | | 0 |
| 29 | Underactuated control of swing in orbit debris towing removal via tether space robots. , 2017, , . | | 0 |
| 30 | GEO debris towing removal using reel control of tethered space robots. , 2017, , . | | 0 |
| 31 | Cellular space robot and its interactive model identification for spacecraft takeover control. , 2016, , . | | 8 |
| 32 | Adaptive control for space debris removal with uncertain kinematics, dynamics and states. Acta Astronautica, 2016, 128, 416-430. | 3.2 | 82 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | Coordinated coupling control of tethered space robot using releasing characteristics of space tether. Advances in Space Research, 2016, 57, 1528-1542. | 2.6 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Attitude takeover control for post-capture of target spacecraft using space robot. Aerospace Science and Technology, 2016, 51, 171-180. | 4.8 | 104 |
| 38 | Universal Dynamic Model of the Tethered Space Robot. Journal of Aerospace Engineering, 2016, 29, . | 1.4 | 6 |
| 39 | Adaptive Postcapture Backstepping Control for Tumbling Tethered Space Robotâ€“Target Combination. Journal of Guidance, Control, and Dynamics, 2016, 39, 150-156. | 2.8 | 127 |
| 40 | Coordinated control of tethered space robot using releasing characteristics of space tether. , 2015, , . | | 4 |
| 41 | A towing orbit transfer method of tethered space robots. , 2015, , . | | 4 |
| 42 | Post-capture attitude control for a tethered space robotâ€“target combination system. Robotica, 2015, 33, 898-919. | 1.9 | 44 |
| 43 | Coordinated stabilization of tumbling targets using tethered space manipulators. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2420-2432. | 4.7 | 73 |
| 44 | Dynamics and configuration control of the Maneuvering-Net Space Robot System. Advances in Space Research, 2015, 55, 1004-1014. | 2.6 | 37 |
| 45 | Shape keeping control of maneuverable tether-net space robots. , 2014, , . | | 1 |
| 46 | A fast circle detector of non-cooperative target for Tethered Space Robot. , 2014, , . | | 0 |