

Jianjun

List of Publications by Year in descending order

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62
papers

1,410
citations

331670

21
h-index

361022

35
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63
all docs

63
docs citations

63
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	Trajectory planning of free-floating space robot using Particle Swarm Optimization (PSO). <i>Acta Astronautica</i> , 2015, 112, 77-88.	3.2	115
2	Optimal trajectory planning of free-floating space manipulator using differential evolution algorithm. <i>Advances in Space Research</i> , 2018, 61, 1525-1536.	2.6	89
3	Appointed-time prescribed performance attitude tracking control via double performance functions. <i>Aerospace Science and Technology</i> , 2019, 93, 105337.	4.8	85
4	Coordinated trajectory planning of dual-arm space robot using constrained particle swarm optimization. <i>Acta Astronautica</i> , 2018, 146, 259-272.	3.2	78
5	A non-linear model predictive controller with obstacle avoidance for a space robot. <i>Advances in Space Research</i> , 2016, 57, 1737-1746.	2.6	64
6	Leader-following consensus of second-order multi-agent systems with arbitrarily appointed-time prescribed performance. <i>IET Control Theory and Applications</i> , 2018, 12, 2276-2286.	2.1	61
7	Detumbling strategy and coordination control of kinematically redundant space robot after capturing a tumbling target. <i>Nonlinear Dynamics</i> , 2018, 92, 1023-1043.	5.2	55
8	Robust inertia-free attitude takeover control of postcapture combined spacecraft with guaranteed prescribed performance. <i>ISA Transactions</i> , 2018, 74, 28-44.	5.7	55
9	Learning-based adaptive prescribed performance control of postcapture space robot-target combination without inertia identifications. <i>Acta Astronautica</i> , 2018, 146, 228-242.	3.2	44
10	Low-complexity differentiator-based decentralized fault-tolerant control of uncertain large-scale nonlinear systems with unknown dead zone. <i>Nonlinear Dynamics</i> , 2017, 89, 2573-2592.	5.2	39
11	Robust prescribed performance control for Euler-Lagrange systems with practically finite-time stability. <i>European Journal of Control</i> , 2020, 52, 1-10.	2.6	38
12	Adaptive model-free constrained control of postcapture flexible spacecraft: a Euler-Lagrange approach. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 4885-4903.	2.6	34
13	An integrated control scheme for space robot after capturing non-cooperative target. <i>Acta Astronautica</i> , 2018, 147, 350-363.	3.2	32
14	Robust estimation-free decentralized prescribed performance control of nonaffine nonlinear large-scale systems. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 174-196.	3.7	30
15	Reactionless Control of Free-Floating Space Manipulators. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 1490-1503.	4.7	29
16	Quasi fixed-time fault-tolerant control for nonlinear mechanical systems with enhanced performance. <i>Applied Mathematics and Computation</i> , 2019, 352, 157-173.	2.2	28
17	An overview of prescribed performance control and its application to spacecraft attitude system. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2021, 235, 435-447.	1.0	26
18	Detumbling control for kinematically redundant space manipulator post-grasping a rotational satellite. <i>Acta Astronautica</i> , 2017, 141, 98-109.	3.2	25

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19	Tube-based robust output feedback model predictive control for autonomous rendezvous and docking with a tumbling target. <i>Advances in Space Research</i> , 2020, 65, 1158-1181.	2.6	25
20	Parameters concurrent learning and reactionless control in post-capture of unknown targets by space manipulators. <i>Nonlinear Dynamics</i> , 2019, 96, 443-457.	5.2	24
21	On novel adaptive saturated deployment control of tethered satellite system with guaranteed output tracking prescribed performance. <i>Aerospace Science and Technology</i> , 2018, 75, 58-73.	4.8	23
22	Robust event-triggered game-based attitude control for on-orbit assembly. <i>Aerospace Science and Technology</i> , 2020, 103, 105894.	4.8	23
23	Novel Synthesis Method for Minimizing Attitude Disturbance of the Free-Floating Space Robots. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 695-704.	2.8	20
24	Kinematic and dynamic manipulability analysis for free-floating space robots with closed chain constraints. <i>Robotics and Autonomous Systems</i> , 2020, 130, 103548.	5.1	20
25	Angles-only relative navigation and closed-loop guidance for spacecraft proximity operations. <i>Acta Astronautica</i> , 2016, 128, 91-106.	3.2	19
26	Event-triggered neuroadaptive control for postcapture spacecraft with ultralow-frequency actuator updates. <i>Neurocomputing</i> , 2018, 315, 310-321.	5.9	19
27	Dynamic coupling analysis of multi-arm space robot. <i>Acta Astronautica</i> , 2019, 160, 583-593.	3.2	19
28	Optimal Concurrent Control for Space Manipulators Rendezvous and Capturing Targets Under Actuator Saturation. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 4841-4855.	4.7	19
29	Globally robust explicit model predictive control of constrained systems exploiting SVM-based approximation. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 3000-3027.	3.7	18
30	Integrated identification and control for nanosatellites reclaiming failed satellite. <i>Acta Astronautica</i> , 2018, 146, 387-398.	3.2	18
31	A fast trajectory planning framework with task-priority for space robot. <i>Acta Astronautica</i> , 2018, 152, 823-835.	3.2	17
32	Multitask-Based Trajectory Planning for Redundant Space Robotics Using Improved Genetic Algorithm. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2226.	2.5	17
33	A novel nonlinear control for tracking and rendezvous with a rotating non-cooperative target with translational maneuver. <i>Acta Astronautica</i> , 2017, 138, 276-289.	3.2	15
34	Optimal grasping pose for dual-arm space robot cooperative manipulation based on global manipulability. <i>Acta Astronautica</i> , 2021, 183, 300-309.	3.2	14
35	Efficient adaptive constrained control with time-varying predefined performance for a hypersonic flight vehicle. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141668750.	2.1	13
36	Dynamics modeling and attitude control of spacecraft flexible solar array considering the structure of the hinge rolling. <i>Acta Astronautica</i> , 2018, 153, 60-70.	3.2	13

#	ARTICLE	IF	CITATIONS
37	Parameterized nonlinear suboptimal control for tracking and rendezvous with a non-cooperative target. <i>Aerospace Science and Technology</i> , 2019, 87, 15-24.	4.8	13
38	Generate optimal grasping trajectories to the end-effector using an improved genetic algorithm. <i>Advances in Space Research</i> , 2020, 66, 1803-1817.	2.6	13
39	Optimal detumbling trajectory generation and coordinated control after space manipulator capturing tumbling targets. <i>Aerospace Science and Technology</i> , 2021, 112, 106626.	4.8	12
40	Active vibration control of underactuated free-floating spacecraft via a performance enhanced way. <i>Acta Astronautica</i> , 2019, 157, 477-488.	3.2	11
41	Event-driven adaptive fault-tolerant tracking control for uncertain mechanical systems with application to flexible spacecraft. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1735-1752.	2.6	11
42	Data-driven game-based control of microsattellites for attitude takeover of target spacecraft with disturbance. <i>ISA Transactions</i> , 2022, 119, 93-105.	5.7	11
43	Consensus of satellite cluster flight using an energy-matching optimal control method. <i>Advances in Space Research</i> , 2017, 60, 2047-2059.	2.6	10
44	Robust entry guidance using linear covariance-based model predictive control. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141668750.	2.1	9
45	Observability criterion of angles-only navigation for spacecraft proximity operations. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019, 233, 4302-4315.	1.3	9
46	Constrained Compliant Control for Space Robot Postcapturing Uncertain Target. <i>Journal of Aerospace Engineering</i> , 2019, 32, .	1.4	9
47	Dynamic Manipulability Analysis of Multi-Arm Space Robot. <i>Robotica</i> , 2021, 39, 23-41.	1.9	9
48	Online feedback motion planning for spacecraft obstacle avoidance using positively invariant sets. <i>Advances in Space Research</i> , 2020, 65, 2424-2434.	2.6	8
49	Cooperative Game Method for On-Orbit Substructure Transportation Using Modular Robots. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2022, 58, 1161-1175.	4.7	5
50	Grasping force optimization for dual-arm space robot after capturing target based on task compatibility. <i>Advances in Space Research</i> , 2022, 70, 1496-1511.	2.6	5
51	Low-complexity stabilization control of combined spacecraft with an unknown captured object. , 2017, , .		3
52	Finite-time fuzzy game-based attitude control for on-orbit cooperative transporting. <i>Journal of the Franklin Institute</i> , 2021, 358, 5237-5261.	3.4	2
53	Manipulability Optimization for Coordinated Motion Control of Multi-arm Space Robots. <i>IFAC-PapersOnLine</i> , 2020, 53, 9853-9858.	0.9	2
54	R-bar guidance strategy design for the final translation of space rendezvous and docking. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
55	Spacecraft Attitude Analytical Predictive Control Based On Sequential Action Control. , 2018, , .		1
56	Finite-time velocity-free prescribed performance control for Halo orbit autonomous rendezvous. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 205-218.	1.3	1
57	ESO-based saturated deployment control of tethered satellite system with finite-time tracking performance guarantees. IFAC-PapersOnLine, 2020, 53, 5689-5694.	0.9	1
58	Energy-Efficient Resource Allocation in Cognitive Wireless-Powered Hybrid Active-Passive Communications. Wireless Communications and Mobile Computing, 2022, 2022, 1-9.	1.2	1
59	Cluster flight algorithms for distributed satellite based on cyclic pursuit. , 2015, , .		0
60	Compensation control of the direct drive wave energy generator for stable energy output. , 2016, , .		0
61	Robust coordinated control for on-orbit substructure transportation under distributed information. Nonlinear Dynamics, 2021, 104, 2331-2346.	5.2	0
62	Predictive pursuit-evasion game control method for approaching space non-cooperative target. IFAC-PapersOnLine, 2020, 53, 14882-14887.	0.9	0