Ti Chen

List of Publications by Year
in descending order

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46 papers	859 citations	471371 17 h-index	477173 29 g-index
46 all docs	46 docs citations	46 times ranked	473 citing authors

#	Article	IF	Citations
1	Distributed Adaptive Attitude Control for Networked Underactuated Flexible Spacecraft. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 215-225.	2.6	70
2	Output consensus and collision avoidance of a team of flexible spacecraft for on-orbit autonomous assembly. Acta Astronautica, 2016, 121, 271-281.	1.7	69
3	Rotation-Matrix-Based Attitude Tracking for Multiple Flexible Spacecraft with Actuator Faults. Journal of Guidance, Control, and Dynamics, 2019, 42, 181-188.	1.6	69
4	Autonomous assembly with collision avoidance of a fleet of flexible spacecraft based on disturbance observer. Acta Astronautica, 2018, 147, 86-96.	1.7	61
5	Distributed adaptive fault-tolerant attitude tracking of multiple flexible spacecraft on $$extit{SO}(3)$$SO(3). Nonlinear Dynamics, 2019, 95, 1827-1839.	2.7	47
6	On-orbit assembly of a team of flexible spacecraft using potential field based method. Acta Astronautica, 2017, 133, 221-232.	1.7	45
7	Quasi-time-optimal controller design for a rigid-flexible multibody system via absolute coordinate-based formulation. Nonlinear Dynamics, 2017, 88, 623-633.	2.7	42
8	Distributed attitude tracking for multiple flexible spacecraft described by partial differential equations. Acta Astronautica, 2019, 159, 637-645.	1.7	39
9	A novel cable-suspended quadrotor transportation system: From theory to experiment. Aerospace Science and Technology, 2020, 104, 105974.	2.5	37
10	Distributed Control of Multiple Flexible Manipulators With Unknown Disturbances and Dead-Zone Input. IEEE Transactions on Industrial Electronics, 2020, 67, 9937-9947.	5.2	36
11	Distributed Tracking of a Class of Underactuated Lagrangian Systems With Uncertain Parameters and Actuator Faults. IEEE Transactions on Industrial Electronics, 2020, 67, 4244-4253.	5.2	34
12	Continuous constrained attitude regulation of multiple spacecraft on SO(3). Aerospace Science and Technology, 2020, 99, 105769.	2.5	30
13	Distributed adaptive tracking control of multiple flexible spacecraft under various actuator and measurement limitations. Nonlinear Dynamics, 2018, 91, 1571-1586.	2.7	28
14	Passivity-based control with collision avoidance for a hub-beam spacecraft. Advances in Space Research, 2017, 59, 425-433.	1.2	26
15	Koopman-Operator-Based Attitude Dynamics and Control on SO(3). Journal of Guidance, Control, and Dynamics, 2020, 43, 2112-2126.	1.6	25
16	Distributed spacecraft attitude tracking and synchronization under directed graphs. Aerospace Science and Technology, 2021, 109, 106432.	2.5	24
17	Distributed passivity-based control for multiple flexible spacecraft with attitude-only measurements. Aerospace Science and Technology, 2019, 94, 105408.	2.5	22
18	Fixed-Time Consensus Control of Multiagent Systems Using Input Shaping. IEEE Transactions on Industrial Electronics, 2019, 66, 7433-7441.	5.2	18

#	Article	IF	Citations
19	Distributed adaptive control for multiple under-actuated Lagrangian systems under fixed or switching topology. Nonlinear Dynamics, 2018, 93, 1705-1718.	2.7	17
20	Distributed finite-time tracking for a team of planar flexible spacecraft. ISA Transactions, 2017, 69, 214-221.	3.1	15
21	Nonlinear analysis and experimental investigation of a rigid-flexible antenna system. Meccanica, 2018, 53, 33-48.	1.2	12
22	Cooperative Transportation of Cable-suspended Slender Payload Using Two Quadrotors. , 2019, , .		9
23	Analytical and experimental investigations of a space antenna system of four DOFs with internal resonances. Communications in Nonlinear Science and Numerical Simulation, 2018, 63, 380-403.	1.7	8
24	Ground-based experiments of tether deployment subject to an analytical control law. Acta Astronautica, 2018, 151, 253-259.	1.7	8
25	Review of attitude consensus of multiple spacecraft. Astrodynamics, 2022, 6, 329-356.	1.5	8
26	Continuous PID-SMC based on improved EHGO for robot manipulators with limited state measurements. Journal of the Franklin Institute, 2020, 357, 10648-10668.	1.9	7
27	Cooperative Transportation of a Flexible Payload Using Two Quadrotors. Journal of Guidance, Control, and Dynamics, 2021, 44, 2099-2107.	1.6	7
28	Continuous leaderless synchronization control of multiple spacecraft on SO(3). Astrodynamics, 2021, 5, 279-291.	1.5	7
29	Characterizing an Air-Bearing Testbed for Simulating Spacecraft Dynamics and Control. Aerospace, 2022, 9, 246.	1.1	7
30	Distributed fixed-time control under directed graph using input shaping. Journal of the Franklin Institute, 2019, 356, 3554-3570.	1.9	6
31	Distributed adaptive attitude control for multiple underactuated flexible spacecraft. , 2018, , .		5
32	Model predictive control of rigid spacecraft with two variable speed control moment gyroscopes. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1551-1564.	1.9	4
33	Nonlinear Modeling and Identification of an Aluminum Honeycomb Panel with Multiple Bolts. Shock and Vibration, 2016, 2016, 1-8.	0.3	3
34	New Design and Dynamic Analysis for Deploying Rolled Booms with Thin Wall. Journal of Spacecraft and Rockets, 2016, 53, 225-230.	1.3	3
35	Boundary Control of a Flexible Manipulator Based on a High Order Disturbance Observer with Input Saturation. Shock and Vibration, 2018, 2018, 1-10.	0.3	3
36	Distributed tracking of multiple under-actuated Lagrangian systems with uncertain parameters and actuator faults. , 2019, , .		3

#	Article	IF	Citations
37	Iterative learning control of a flexible manipulator considering uncertain parameters and unknown repetitive disturbance. , 2019, , .		2
38	Distributed Fixed-Time Control of Multi-agent Systems with Input Shaping*. , 2018, , .		1
39	Rotation-matrix-based attitude tracking and synchronization of multiple flexible spacecraft under directed graph. , 2019, , .		1
40	Transportation of Payload Using Multiple Quadrotors via Rigid Connection. International Journal of Aerospace Engineering, 2022, 2022, 1-13.	0.5	1
41	Motion control and its ground-based experiment of a tethered subsatellite with a controllable rigid arm. Journal of Physics: Conference Series, 2013, 448, 012004.	0.3	0
42	Manoeuvres of spacecraft with flexible appendage in obstacle environment. International Journal of Space Science and Engineering, 2015, 3, 16.	0.1	0
43	Dynamics and control of robotic spacecrafts for the transportation of flexible elements. Journal of Physics: Conference Series, 2016, 744, 012060.	0.3	0
44	Attitude tracking of multiple spacecraft on SO(3) with attitude constraints. , 2020, , .		0
45	Distributed Control of Flexible Payload Transportation Using Multiple Quadrotors. , 2021, , .		0
46	Continuous Leaderless Synchronization Control of Multiple Spacecraft on SO(3). , 2022, , 299-309.		0