Jianping

List of Publications by Year in descending order

101 papers	1,536 citations	331670 21 h-index	414414 32 g-index
102 all docs	102 docs citations	102 times ranked	1144 citing authors

#	Article	IF	Citations
1	Dissipativity-Based Disturbance Attenuation Control for Tâ€“S Fuzzy Markov Jumping Systems With Nonlinear Multisource Uncertainties and Partly Unknown Transition Probabilities. IEEE Transactions on Cybernetics, 2022, 52, 411-422.	9.5	13
2	An innovate filter for space robots to unfirmly capture tumbling targets. International Journal of Adaptive Control and Signal Processing, 2022, 36, 282-299.	4.1	1
3	Robust attitude estimation of rotating space debris based on virtual observations of neural network. International Journal of Adaptive Control and Signal Processing, 2022, 36, 300-314.	4.1	2
4	High order dynamical systems approaches for low-thrust station-keeping of libration point orbits. Acta Astronautica, 2022, 190, 349-364.	3.2	5
5	Multiphysics Simulation of Synchronous Induction Coilgun Based on Implicit Function and Level Set Method. IEEE Transactions on Plasma Science, 2022, 50, 1002-1010.	1.3	1
6	Trajectory Planning of Free-Floating Space Robot Based on Dual-Mode Switching. Journal of Aerospace Engineering, 2022, 35, .	1.4	1
7	An Innovate Detumbling Method for a Non-Cooperative Space Target via Repeated Tentative Contacts. IEEE Access, 2022, 10, 64435-64450.	4.2	1
8	Dissipativity-Based Composite Antidisturbance Control for Tâ€“S Fuzzy Switched Stochastic Nonlinear Systems Subjected to Multisource Disturbances. IEEE Transactions on Fuzzy Systems, 2021, 29, 1226-1237.	9.8	10
9	Detection of Defects in Non-Metallic Composite Material Based on Electronically Controlled Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2021, 21, 2883-2890.	4.7	7
10	Thermo-mechanical modeling and experimental validation for multilayered metallic microstructures. Microsystem Technologies, 2021, 27, 2579-2587.	2.0	15
11	Connectivity preservation and collision avoidance control for spacecraft formation flying in the presence of multiple obstacles. Advances in Space Research, 2021, 67, 3504-3514.	2.6	10
12	Multilayered microstructures with shape memory effects for vertical deployment. Microsystem Technologies, 2021, 27, 3325-3332.	2.0	12
13	A novel design and thermal analysis of micro solar sails for solar sailing with chip scale spacecraft. Microsystem Technologies, 2021, 27, 2615-2622.	2.0	11
14	Current divisions and distributed Joule heating of two-dimensional grid microstructures. Microsystem Technologies, 2021, 27, 3339-3347.	2.0	11
15	An efficient statistical adaptive order-switching methodology for kalman filters. Communications in Nonlinear Science and Numerical Simulation, 2021, 93, 105539.	3.3	3
16	Electro-thermal modeling and experimental validation for multilayered metallic microstructures. Microsystem Technologies, 2021, 27, 2041-2048.	2.0	16
17	Electro-thermo-mechanical modelling of micro solar sails of chip scale spacecraft in space. Microsystem Technologies, 2021, 27, 4209-4215.	2.0	9
18	Three-dimensional multi-finger caging for capturing convex objects in the space. Acta Astronautica, 2021, 180, 273-291.	3.2	1

#	Article	IF	Citations
19	Method of Defects Detection in Non-Metallic Composites Based on Liquid Flow Controlled Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2021, 21, 13239-13246.	4.7	8
20	A Method for Detecting Metal Surface Cracks Based on Coaxial Resonator. IEEE Sensors Journal, 2021, 21, 16644-16650.	4.7	6
21	Full State Constrained Adaptive Fuzzy Control for Stochastic Nonlinear Switched Systems With Input Quantization. IEEE Transactions on Fuzzy Systems, 2020, 28, 645-657.	9.8	29
22	Novel Accordion-Inspired Foldable Pneumatic Actuators for Knee Assistive Devices. Soft Robotics, 2020, 7, 95-108.	8.0	42
23	Fuzzy adaptive fault tolerant IGC method for STT missiles with time-varying actuator faults and multisource uncertainties. Journal of the Franklin Institute, 2020, 357, 59-81.	3.4	11
24	Design of a Tunable Polarization-Insensitive Absorber for L and S Bands Using Active Frequency-Selective Surface. Journal of Electronic Materials, 2020, 49, 1173-1183.	2.2	5
25	Rotationâ€“translation coupling analysis on perturbed spacecraft relative translational motion. Nonlinear Dynamics, 2020, 102, 2549-2561.	5.2	8
26	Generate optimal grasping trajectories to the end-effector using an improved genetic algorithm. Advances in Space Research, 2020, 66, 1803-1817.	2.6	13
27	An Online One-Step Method to Identify Inertial Parameters of the Base and the Target Simultaneously for Space Robots in Postcapture. IEEE Access, 2020, 8, 189913-189929.	4.2	3
28	Online One-Step Parameter Identification Method for a Space Robot with Initial Momentum in Postcapture. Journal of Aerospace Engineering, 2020, 33, .	1.4	5
29	Adaptive Caging Configuration Design Algorithm of Hyper-Redundant Manipulator for Dysfunctional Satellite Pre-Capture. IEEE Access, 2020, 8, 22546-22559.	4.2	3
30	Adaptive multivariable generalized super-twisting algorithm based robust coordinated control for a space robot subjected to coupled uncertainties. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 3244-3259.	1.3	7
31	Novel dual vector quaternions based adaptive extended two-step filter for pose and inertial parameters estimation of a free-floating tumbling space target. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 2570-2591.	1.3	2
32	The caging configuration design and optimization for planar moving objects using multi-fingered mechanism. Advanced Robotics, 2019, 33, 925-943.	1.8	2
33	Detection of Defects in Film-Coated Metals and Non-Metallic Materials Based on Spoof Surface Plasmon Polaritons. IEEE Sensors Journal, 2019, 19, 11891-11899.	4.7	21
34	Detection of surface defects in film-coated metals and measurement of coating thickness. Review of Scientific Instruments, 2019, 90, 095005.	1.3	1
35	Parameters concurrent learning and reactionless control in post-capture of unknown targets by space manipulators. Nonlinear Dynamics, 2019, 96, 443-457.	5.2	24
36	Artificial potential field based robust adaptive control for spacecraft rendezvous and docking under motion constraint. ISA Transactions, 2019, 95, 173-184.	5.7	26

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37	Two-stage filter for inertia characteristics estimation of high-speed tumbling targets. Aerospace Science and Technology, 2019, 89, 333-344.	4.8	7
38	Multi-CubeSatâ€‰Relativeâ€‰Position and Attitude Determination Based on Array Signal Detection in Formation Flying. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 3378-3393.	4.7	17
39	Parameter estimations of uncooperative space targets using novel mixed artificial neural network. Neurocomputing, 2019, 339, 232-244.	5.9	9
40	Distributed Connectivity Maintenance and Collision Avoidance Control of Spacecraft Formation Flying. , 2019, , .		2
41	Robust fault-tolerant saturated control for spacecraft proximity operations with actuator saturation and faults. Advances in Space Research, 2019, 63, 1541-1553.	2.6	18
42	Propellant-efficient station-keeping using a hybrid sail in the Earthâ€“Moon system. Nonlinear Dynamics, 2019, 95, 1323-1346.	5.2	9
43	Extended state observer based output control for spacecraft rendezvous and docking with actuator saturation. ISA Transactions, 2019, 88, 37-49.	5.7	27
44	Fault-tolerant pose and inertial parameters estimation of an uncooperative spacecraft based on dual vector quaternions. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 1250-1269.	1.3	8
45	Distributed adaptive synchronization for multiple spacecraft formation flying around Lagrange point orbits. Aerospace Science and Technology, 2018, 74, 93-103.	4.8	17
46	Decentralized adaptive fault tolerant control for a class of interconnected systems with nonlinear multisource disturbances. Journal of the Franklin Institute, 2018, 355, 4493-4514.	3.4	15
47	Detumbling strategy and coordination control of kinematically redundant space robot after capturing a tumbling target. Nonlinear Dynamics, 2018, 92, 1023-1043.	5.2	55
48	An integrated control scheme for space robot after capturing non-cooperative target. Acta Astronautica, 2018, 147, 350-363.	3.2	32
49	Analysis of the relative dynamics of a charged spacecraft moving under the influence of a magnetic field. Communications in Nonlinear Science and Numerical Simulation, 2018, 62, 307-338.	3.3	4
50	ADRC for spacecraft attitude and position synchronization in libration point orbits. Acta Astronautica, 2018, 145, 238-249.	3.2	16
51	A 3-D Energy-Harvesting-Aware Routing Scheme for Space Nanosatellite Networks. IEEE Internet of Things Journal, 2018, 5, 2729-2740.	8.7	14
52	Robust inertia-free attitude takeover control of postcapture combined spacecraft with guaranteed prescribed performance. ISA Transactions, 2018, 74, 28-44.	5.7	55
53	Periodic orbits of solar sail equipped with reflectance control device in Earthâ€“Moon system. Astrophysics and Space Science, 2018, 363, 1.	1.4	10
54	Coordinated trajectory planning of dual-arm space robot using constrained particle swarm optimization. Acta Astronautica, 2018, 146, 259-272.	3.2	78

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55	Robust adaptive fault tolerant attitude control for post-capture non-cooperative targets with actuator nonlinearities. Transactions of the Institute of Measurement and Control, 2018, 40, 2116-2128.	1.7	10
56	Adaptive second-order sliding mode control: A unified method. Transactions of the Institute of Measurement and Control, 2018, 40, 1927-1935.	1.7	11
57	Partial stabilization of underactuated post-capture combination with inaccurate measurement information and unknown disturbances. Transactions of the Institute of Measurement and Control, 2018, 40, 3625-3639.	1.7	2
58	Non-linear disturbance observer-based adaptive composite anti-disturbance control for non-linear systems with dynamic non-harmonic multisource disturbances. Transactions of the Institute of Measurement and Control, 2018, 40, 3458-3465.	1.7	8
59	Robust estimationâ€free decentralized prescribed performance control of nonaffine nonlinear largeâ€scale systems. International Journal of Robust and Nonlinear Control, 2018, 28, 174-196.	3.7	30
60	Leaderâ€following consensus of secondâ€order multiâ€agent systems with arbitrarily appointedâ€time prescribed performance. IET Control Theory and Applications, 2018, 12, 2276-2286.	2.1	61
61	Relative position and attitude estimation method based on antenna arrays. , 2018, , .		0
62	An Interdigital Electrode Probe for Detection, Localization and Evaluation of Surface Notch-Type Damage in Metals. Sensors, 2018, 18, 371.	3.8	7
63	Potential function based robust safety control for spacecraft rendezvous and proximity operations under path constraint. Advances in Space Research, 2018, 62, 2586-2598.	2.6	18
64	Polydopamine-Assisted Hydroxyapatite and Lactoferrin Multilayer on Titanium for Regulating Bone Balance and Enhancing Antibacterial Property. ACS Biomaterials Science and Engineering, 2018, 4, 3211-3223.	5.2	23
65	Structure, Design, and Modeling of an Origami-Inspired Pneumatic Solar Tracking System for the NPU-Phonesat. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	10
66	Study of the transfer between libration point orbits and lunar orbits in Earthâ€“Moon system. Celestial Mechanics and Dynamical Astronomy, 2017, 128, 409-433.	1.4	4
67	Adaptive output feedback disturbance attenuation control for nonlinear systems with non-harmonic multisource disturbances. Optik, 2017, 137, 85-95.	2.9	12
68	Equilibrium points and zero velocity surfaces in the axisymmetric restricted five-body problem. Astrophysics and Space Science, 2017, 362, 1.	1.4	14
69	Robust entry guidance using linear covariance-based model predictive control. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668750.	2.1	9
70	Globally robust explicit model predictive control of constrained systems exploiting SVMâ€based approximation. International Journal of Robust and Nonlinear Control, 2017, 27, 3000-3027.	3.7	18
71	Neural network-based adaptive fault tolerant consensus control for a class of high order multiagent systems with input quantization and time-varying parameters. Neurocomputing, 2017, 266, 315-324.	5.9	36
72	Novel relative navigation for small satellite formation based on antenna arrays using impulse response. , 2017, , .		1

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73	Adaptive neural control for high order Markovian jump nonlinear systems with unmodeled dynamics and dead zone inputs. Neurocomputing, 2017, 247, 62-72.	5.9	38
74	Estimation of inertial characteristics of tumbling spacecraft using constant state filter. Advances in Space Research, 2017, 60, 513-530.	2.6	19
75	Efficient adaptive constrained control with time-varying predefined performance for a hypersonic flight vehicle. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668750.	2.1	13
76	Attitude control of a picosatellite named NPU-PhoneSat based on shape actuation. Aerospace Science and Technology, 2017, 71, 62-67.	4.8	7
77	Adaptive pose and inertial parameters estimation of free-floating tumbling space objects using dual vector quaternions. Advances in Mechanical Engineering, 2017, 9, 168781401771421.	1.6	16
78	Model predictive control for autonomous rendezvous and docking with a tumbling target. Aerospace Science and Technology, 2017, 69, 700-711.	4.8	85
79	Formation flying for electric sails in displaced orbits. Part II: Distributed coordinated control. Advances in Space Research, 2017, 60, 1130-1147.	2.6	16
80	Formation flying for electric sails in displaced orbits. Part I: Geometrical analysis. Advances in Space Research, 2017, 60, 1115-1129.	2.6	13
81	Low-complexity differentiator-based decentralized fault-tolerant control of uncertain large-scale nonlinear systems with unknown dead zone. Nonlinear Dynamics, 2017, 89, 2573-2592.	5.2	39
82	A robust singularity avoidance method with improved path tracking performance for autonomous manipulation. , 2017, , .		1
83	A Six-DOF Buoyancy Tank Microgravity Test Bed with Active Drag Compensation. Microgravity Science and Technology, 2017, 29, 391-402.	1.4	15
84	Low-complexity stabilization control of combined spacecraft with an unknown captured object. , 2017, , .		3
85	Analysis of a Two-Dimensional Aeroelastic System Using the Differential Transform Method. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	1.2	2
86	Compensation control of the direct drive wave energy generator for stable energy output. , 2016, , .		0
87	Angles-only relative navigation and closed-loop guidance for spacecraft proximity operations. Acta Astronautica, 2016, 128, 91-106.	3.2	19
88	Half-order optimally scaled Fourier expansion method for solving nonlinear dynamical system. International Journal of Non-Linear Mechanics, 2016, 87, 21-29.	2.6	2
89	Analysis of relative motion in non-Keplerian orbits via modified equinoctial elements. Aerospace Science and Technology, 2016, 58, 389-400.	4.8	12
90	Numerical analysis of orbital motion around a contact binary asteroid system. Advances in Space Research, 2016, 58, 387-401.	2.6	7

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91	Stabilization and parameter identification of tumbling space debris with bounded torque in postcapture. Acta Astronautica, 2016, 123, 301-309.	3.2	30
92	An improving method for micro-G simulation with magnetismâ€“buoyancy hybrid system. Advances in Space Research, 2016, 57, 2548-2558.	2.6	7
93	Distributed Coordinated Motion Tracking of the Linear Switched Reluctance Machine-Based Group Control System. IEEE Transactions on Industrial Electronics, 2016, 63, 1480-1489.	7.9	38
94	Pseudospectral control for 6-DOF electromagnetic formation flying. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2231-2241.	1.3	3
95	Modeling and analysis of periodic orbits around a contact binary asteroid. Astrophysics and Space Science, 2015, 357, 1.	1.4	10
96	A comparison of classical Runge-Kutta and Henonâ€™s methods for capturing chaos and chaotic transients in an aeroelastic system with freeplay nonlinearity. Nonlinear Dynamics, 2015, 81, 169-188.	5.2	39
97	Orbital Motion in the Vicinity of the Non-collinear Equilibrium Points of a Contact Binary Asteroid. Planetary and Space Science, 2015, 117, 1-14.	1.7	16
98	Induced generalized Choquet aggregating operators with linguistic information and their application to multiple attribute decision making based on the intelligent computing. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1077-1085.	1.4	16
99	Fourier Series Approximations to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mrow><mml:mi>J</mml:mi></mml:mrow><mml:mrow><mml:mn fontstyle="italic">2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>-Bounded Equatorial Orbits. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	1
100	A time domain collocation method for studying the aeroelasticity of a two dimensional airfoil with a structural nonlinearity. Journal of Computational Physics, 2014, 270, 214-237.	3.8	40
101	A fast harmonic balance technique for periodic oscillations of an aeroelastic airfoil. Journal of Fluids and Structures, 2014, 50, 231-252.	3.4	17