Zhijie Liu

List of Publications by Year
in descending order

123 papers	2,913 citations	172457 29 h-index	197818 49 g-index
127 all docs	127 docs citations	127 times ranked	1240 citing authors

#	Article	IF	Citations
1	Event-triggered boundary control of a flexible manipulator with uncertain end load. International Journal of Control, 2023, 96, 124-135.	1.9	2
2	Vibration Suppression of a High-Rise Building With Adaptive Iterative Learning Control. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4261-4272.	11.3	3
3	Nonlinear disturbance observer-based direct joint control for manipulation of a flexible payload with output constraints. International Journal of Control, 2023, 96, 1377-1388.	1.9	7
4	Adaptive Neural Network Control of an Uncertain 2-DOF Helicopter With Unknown Backlash-Like Hysteresis and Output Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10018-10027.	11.3	20
5	Adaptive vibration control for constrained moving vehicle-mounted nonlinear 3D rigid-flexible manipulator system subject to actuator failures. JVC/Journal of Vibration and Control, 2023, 29, 4155-4171.	2.6	1
6	LMI-based robust adaptive neural network control for Eulerâ€“Bernoulli beam with uncertain parameters and disturbances. International Journal of Control, 2022, 95, 1-10.	1.9	3
7	Distributed Parameter Modeling and Boundary Control of an Octopus Tentacle-Inspired Soft Robot. IEEE Transactions on Control Systems Technology, 2022, 30, 1244-1256.	5.2	8
8	Boundary Feedback Control of a Nonhomogeneous Wind Turbine Tower With Exogenous Disturbances. IEEE Transactions on Automatic Control, 2022, 67, 1952-1959.	5.7	63
9	Vibration Control for Flexible Manipulators With Event-Triggering Mechanism and Actuator Failures. IEEE Transactions on Cybernetics, 2022, 52, 7591-7601.	9.5	16
10	Adaptive Vibration Control for an Active Mass Damper of a High-Rise Building. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1970-1983.	9.3	5
11	Adaptive fault-tolerant boundary vibration control for a flexible aircraft wing against actuator and sensor faults. JVC/Journal of Vibration and Control, 2022, 28, 1025-1034.	2.6	8
12	Adaptive Fuzzy Control for a Hybrid Spacecraft System With Spatial Motion and Communication Constraints. IEEE Transactions on Fuzzy Systems, 2022, 30, 3247-3256.	9.8	10
13	Adaptive Fuzzy Event-Triggered Control of Aerial Refueling Hose System With Actuator Failures. IEEE Transactions on Fuzzy Systems, 2022, 30, 2981-2992.	9.8	19
14	Cooperative Fault-Tolerant Control for a Mobile Dual Flexible Manipulator With Output Constraints. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2689-2698.	5.2	6
15	Robust Adaptive Control Allocation for a Class of Cascade ODE-String Systems With Actuator Failures. IEEE Transactions on Automatic Control, 2022, 67, 1474-1481.	5.7	15
16	Time-Varying Trajectory Tracking Boundary Control of a Flexible Rotation Beam Based on Servomechanism. IEEE Transactions on Industrial Electronics, 2022, 69, 9185-9195.	7.9	8
17	Adaptive Fault-Tolerant Boundary Control of an Autonomous Aerial Refueling Hose System With Prescribed Constraints. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2678-2688.	5.2	19
18	Boundary control for PDE flexible manipulators: Accommodation to both actuator faults and sensor faults. Asian Journal of Control, 2022, 24, 1700-1712.	3.0	6

#	Article	IF	Citations
19	Event-triggered vibration control for a class of flexible mechanical systems with bending deformation and torsion deformation based on PDE model. Mechanical Systems and Signal Processing, 2022, 164, 108255.	8.0	11
20	Adaptive Fault-Tolerant Control of a Probe-and-Drogue Refueling Hose Under Varying Length and Constrained Output. IEEE Transactions on Control Systems Technology, 2022, 30, 869-876.	5.2	10
21	Sliding mode control for underactuated system with input constraint based on RBF neural network and Hurwitz stability analysis. Asian Journal of Control, 2022, 24, 3032-3042.	3.0	8
22	Stabilization of Flexible Satellite withÂUnknown Input Deadzone. Lecture Notes in Electrical Engineering, 2022, , 791-801.	0.4	0
23	Adaptive Event-Triggered Boundary Control for a Flexible Manipulator With Input Quantization. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3706-3716.	5.8	7
24	Trajectory Tracking Control for a Three-Dimensional Flexible Wing. IEEE Transactions on Control Systems Technology, 2022, 30, 2243-2250.	5.2	68
25	Vibration and position tracking control for a flexible Timoshenko robot arm with disturbance rejection mechanism. Assembly Automation, 2022, 42, 248-257.	1.7	4
26	ANN-Based vibration control of an aerial refueling hose system with input nonlinearity and prescribed output constraint. Journal of the Franklin Institute, 2022, 359, 2627-2645.	3.4	2
27	PDE Modeling and Tracking Control for the Flexible Tail of an Autonomous Robotic Fish. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7618-7627.	9.3	2
28	Adaptive faultâ€tolerant robust control based on radial basis function neural network for a class of mechanical systems with input constraints. International Journal of Robust and Nonlinear Control, 2022, 32, 4099-4112.	3.7	5
29	Active disturbance rejection controllers optimized via adaptive granularity learning distributed pigeon-inspired optimization for autonomous aerial refueling hose-drogue system. Aerospace Science and Technology, 2022, 124, 107528.	4.8	4
30	Eventâ€triggered adaptive faultâ€tolerant vibration control for a flexible robotic manipulator based on the partial differential equation model. International Journal of Adaptive Control and Signal Processing, 2022, 36, 2083-2099.	4.1	3
31	Fuzzy Observer for 2-D Parabolic Equation With Output Time Delay. IEEE Transactions on Fuzzy Systems, 2021, 29, 3552-3560.	9.8	12
32	Vibration control of flexible manipulator with unknown control direction. International Journal of Control, 2021, 94, 2690-2702.	1.9	11
33	Vibration Control for Spatial Aerial Refueling Hoses With Bounded Actuators. IEEE Transactions on Industrial Electronics, 2021, 68, 4209-4217.	7.9	67
34	Coordination and vibration control for two sets of flexible satellites with input constraints and actuator failures. JVC/Journal of Vibration and Control, 2021, 27, 1281-1296.	2.6	1
35	Bilateral coordination control of flexible masterâ€“slave manipulators using a partial differential equation model. JVC/Journal of Vibration and Control, 2021, 27, 1561-1572.	2.6	5
36	Boundary Torque Control of a Flexible Two-Link Manipulator and Its Experimental Investigation. IEEE Transactions on Industrial Electronics, 2021, 68, 8708-8717.	7.9	18

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37	Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4127-4138.	9.3	34
38	Boundary vibration suppression for a flexible threeâ€dimensional marine riser against unknown sensor and actuator faults. International Journal of Robust and Nonlinear Control, 2021, 31, 1438-1451.	3.7	10
39	Output Constrained Adaptive Controller Design for Nonlinear Saturation Systems. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 441-454.	13.1	21
40	Output constraints vibration control for a flexible aircraft wing with prescribed performance. International Journal of Systems Science, 2021, 52, 2241-2254.	5.5	2
41	Modeling and adaptive control for a spatial flexible spacecraft with unknown actuator failures. Science China Information Sciences, 2021, 64, 1.	4.3	131
42	Observerâ€based H_{â^ž} control of a stochastic Kortewegâ€“de Vriesâ€“Burgers equation. International Journal of Robust and Nonlinear Control, 2021, 31, 5943-5961.	3.7	7
43	Three-dimensional vibration suppression for an Eulerâ€“Bernoulli beam with asymmetric output constraint. Journal of the Franklin Institute, 2021, 358, 3470-3490.	3.4	5
44	PDE modeling and control of a cylindrical soft manipulator with bounded cable tension. , 2021, , .		1
45	Event-triggered neural network control for a class of uncertain nonlinear systems with input quantization. Neurocomputing, 2021, 440, 240-250.	5.9	14
46	Stabilization control of a flexible marine riser with failed and bounded actuator and timeâ€varying boundary constraints. International Journal of Robust and Nonlinear Control, 2021, 31, 7621-7639.	3.7	4
47	Towards symbiotic autonomous systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200359.	3.4	1
48	State-estimator-based robust vibration control of crane bridge system with trolley via PDE model. Communications in Nonlinear Science and Numerical Simulation, 2021, 99, 105799.	3.3	9
49	Adaptive neural network control for nonlinear cyber-physical systems subject to false data injection attacks with prescribed performance. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200372.	3.4	6
50	Boundary adaptive fault-tolerant control for a flexible Timoshenko arm with backlash-like hysteresis. Automatica, 2021, 130, 109690.	5.0	93
51	Finite-time convergence disturbance rejection control for a flexible Timoshenko manipulator. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 157-168.	13.1	77
52	Nonlinear Partial Differential Equation Model-Based Coordination Control for a Masterâ€“Slave Two-Link Rigidâ€“Flexible Manipulator With Vibration Repression. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	1.2	1
53	Adaptive fault-tolerant control for a three-tank system with height and rate constraints. , 2021, , .		0
54	Observer-based feedback control for linear parabolic PDEs with quantized input. , 2021, , .		0

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55	Backstepping control of flexible joint manipulator based on hyperbolic tangent function with control input and rate constraints. Asian Journal of Control, 2020, 22, 1268-1279.	3.0	12
56	Boundary Constrained Control of Flexible String Systems Subject to Disturbances. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 112-116.	3.0	63
57	Adaptive fault-tolerant vibration control of a wind turbine blade with actuator stuck. International Journal of Control, 2020, 93, 713-724.	1.9	11
58	Neural-network-based adaptive fault-tolerant vibration control of single-link flexible manipulator. Transactions of the Institute of Measurement and Control, 2020, 42, 430-438.	1.7	16
59	Vibration control for a flexible satellite with adaptive actuator fault-tolerant and input quantization. Transactions of the Institute of Measurement and Control, 2020, 42, 451-460.	1.7	10
60	Three-dimensional modeling and input saturation control for a two-link flexible manipulator based on infinite dimensional model. Journal of the Franklin Institute, 2020, 357, 1026-1042.	3.4	21
61	Adaptive singularity-free controller design of constrained nonlinear systems with prescribed performance. Neurocomputing, 2020, 417, 212-223.	5.9	5
62	Modeling and distributed adaptive faultâ€tolerant vibration control for bridge beam with singleâ€parameter adaptive neural network. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1831-1846.	4.1	3
63	PDE Control of Vehicle-mounted Flexible Link with Input Saturation and Disturbances. , 2020, , .		0
64	PDE modelling and vibration control of overhead crane bridge with unknown control directions and parametric uncertainties. IET Control Theory and Applications, 2020, 14, 116-126.	2.1	16
65	Vibration control for nonlinear overhead crane bridge subject to actuator failures and output constraints. Nonlinear Dynamics, 2020, 101, 419-438.	5.2	15
66	Vibration and Event-Triggered Control for Flexible Nonlinear Three-Dimensional Eulerâ€“Bernoulli Beam System. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	1.2	4
67	Vibration control of nonlinear three-dimensional length-varying string with input quantization. JVC/Journal of Vibration and Control, 2020, 26, 1835-1847.	2.6	11
68	Adaptive Control for a Constrained Soft Manipulator with Prescribed Performance. IFAC-PapersOnLine, 2020, 53, 524-529.	0.9	0
69	Attitude control of flexible anti-symmetric satellite with restricted tracking error. , 2020, , .		0
70	Vibration Control of a Probe-and-Drogue Refueling Hose System with Prescribed Bound. , 2020, , .		0
71	Adaptive neural network control for a soft robotic manipulator. , 2020, , .		1
72	Adaptive neural network control for a nonlinear Eulerâ€Bernoulli beam in threeâ€dimensional space with unknown control direction. International Journal of Robust and Nonlinear Control, 2019, 29, 4494-4514.	3.7	13

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73	Vibration control of aero two-blade propeller with input and output constraints based on PDE model. Aerospace Science and Technology, 2019, 93, 105291.	4.8	3
74	Adaptive Distributed Control of a Flexible Manipulator Using an Iterative Learning Scheme. IEEE Access, 2019, 7, 145934-145943.	4.2	7
75	Boundary Control for a Flexible String System with Prescribed Bound. , 2019, , .		0
76	Partial differential equation modeling and vibration control for a nonlinear 3D rigidâ€flexible manipulator system with actuator faults. International Journal of Robust and Nonlinear Control, 2019, 29, 3793-3807.	3.7	17
77	Adaptive fault-tolerant boundary control for a flexible aircraft wing with input constraints. Aerospace Science and Technology, 2019, 90, 34-43.	4.8	20
78	Adaptive actuator fault-tolerant control for a three-dimensional Eulerâ€“Bernoulli beam with output constraints and uncertain end load. Journal of the Franklin Institute, 2019, 356, 3869-3898.	3.4	22
79	Modeling and robust adaptive iterative learning control of a vehicleâ€based flexible manipulator with uncertainties. International Journal of Robust and Nonlinear Control, 2019, 29, 2385-2405.	3.7	32
80	Adaptive Fault-Tolerant Control of Flexible Mobile Manipulator. , 2019, , .		1
81	Fault-Tolerant Control for a Vibrating Nanobeam System. , 2019, , .		1
82	Singular Perturbation Approach based Boundary Control of a Flexible Manipulator with High Gain Observer. , 2019, , .		0
83	PDE model-based state-feedback control of constrained moving vehicle-mounted flexible manipulator with prescribed performance. Journal of Sound and Vibration, 2019, 441, 126-151.	3.9	15
84	Dynamic modeling and vibration control of a three-dimensional flexible string with variable length and spatiotemporally varying parameters subject to input constraints. Nonlinear Dynamics, 2019, 95, 1395-1413.	5.2	9
85	Modeling and vibration control of aero two-blade propeller with input magnitude and rate saturations. Aerospace Science and Technology, 2019, 84, 412-430.	4.8	8
86	Active Vibration Control for a Flexibleâ€Link Manipulator with Input Constraint Based on a Disturbance Observer. Asian Journal of Control, 2019, 21, 847-855.	3.0	22
87	LMI-based boundary and distributed control design for a flexible string subject to disturbance. International Journal of Control, 2019, 92, 1959-1969.	1.9	8
88	Vibration Control of a Flexible Beam. , 2019, , 33-57.		0
89	An adaptive RBF neural network control method for a class of nonlinear systems. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 457-462.	13.1	124
90	Vibration control for a flexible satellite with input constraint based on Nussbaum function via backstepping method. Aerospace Science and Technology, 2018, 77, 563-572.	4.8	36

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91	Vibration control for a nonlinear three-dimensional Eulerâ€“Bernoulli beam under input magnitude and rate constraints. Nonlinear Dynamics, 2018, 91, 2551-2570.	5.2	25
92	Boundary control of an Eulerâ€“Bernoulli beam with input and output restrictions. Nonlinear Dynamics, 2018, 92, 531-541.	5.2	35
93	Dynamic modeling and vibration control for a nonlinear 3â€dimensional flexible manipulator. International Journal of Robust and Nonlinear Control, 2018, 28, 3927-3945.	3.7	64
94	Switching fault-tolerant control of a moving vehicle-mounted flexible manipulator system with state constraints. Journal of the Franklin Institute, 2018, 355, 3050-3078.	3.4	17
95	Active Control of an Elastic Beam Based on State and Input Constraints. IEEE Access, 2018, 6, 10635-10643.	4.2	12
96	Adaptive Iterative Learning Boundary Control of a Flexible Manipulator with Guaranteed Transient Performance. Asian Journal of Control, 2018, 20, 1027-1038.	3.0	29
97	Vibration control for the payload at the end of a nonlinear three-dimensional Eulerâ€“Bernoulli beam with input constraints. Transactions of the Institute of Measurement and Control, 2018, 40, 3088-3094.	1.7	5
98	Neural network based boundary control of a vibrating string system with input deadzone. Neurocomputing, 2018, 275, 1021-1027.	5.9	91
99	Disturbance observer based attitude control for flexible spacecraft with input magnitude and rate constraints. Aerospace Science and Technology, 2018, 72, 486-492.	4.8	90
100	Robust adaptive fault tolerant control for a linear cascaded ODE-beam system. Automatica, 2018, 98, 42-50.	5.0	113
101	Single Parameter Adaptive Control of Unknown Nonlinear Systems with Tracking Error Constraints. Complexity, 2018, 2018, 1-9.	1.6	3
102	Parallel Control of Distributed Parameter Systems. IEEE Transactions on Cybernetics, 2018, 48, 3291-3301.	9.5	12
103	Adaptive actuator fault compensation control for a rigid-flexible manipulator with ODEs-PDEs model. International Journal of Systems Science, 2018, 49, 1748-1759.	5.5	27
104	Partial differential equation boundary control of a flexible manipulator with input saturation. International Journal of Systems Science, 2017, 48, 53-62.	5.5	51
105	Modeling and vibration control of a flexible aerial refueling hose with variable lengths and input constraint. Automatica, 2017, 77, 302-310.	5.0	237
106	Adaptive formation control of quadrotor unmanned aerial vehicles with bounded control thrust. Chinese Journal of Aeronautics, 2017, 30, 807-817.	5.3	48
107	Control design for a vibrating flexible marine riser system. Journal of the Franklin Institute, 2017, 354, 8117-8133.	3.4	82
108	Vibration control for a rigid-flexible manipulator with full state constraints via Barrier Lyapunov Function. Journal of Sound and Vibration, 2017, 406, 237-252.	3.9	45

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109	Vibration control of a flexible aerial refuelling hose with input saturation. International Journal of Systems Science, 2017, 48, 971-983.	5.5	14
110	An adaptive iterative learning algorithm for boundary control of a coupled ODEâ€“PDE two-link rigidâ€“flexible manipulator. Journal of the Franklin Institute, 2017, 354, 277-297.	3.4	71
111	Boundary Control of a Flexible Robotic Manipulator With Output Constraints. Asian Journal of Control, 2017, 19, 332-345.	3.0	58
112	An adaptive iterative learning algorithm for boundary control of a flexible manipulator. International Journal of Adaptive Control and Signal Processing, 2017, 31, 903-916.	4.1	36
113	Deadzone compensation based boundary control of a flexible aerial refueling hose with output constraint. IFAC-PapersOnLine, 2017, 50, 645-650.	0.9	3
114	Disturbance observer based boundary control of a flexible manipulator with input saturation. , 2017, , .		0
115	Dynamic modeling and vibration control of a flexible aerial refueling hose. Aerospace Science and Technology, 2016, 55, 92-102.	4.8	31
116	Adaptive boundary control of a flexible manipulator with input saturation. International Journal of Control, 2016, 89, 1191-1202.	1.9	82
117	Distributed piezoelectric vibration control for a flexible-link manipulator based on an observer in the form of partial differential equations. Journal of Sound and Vibration, 2016, 363, 77-96.	3.9	39
118	Observer design for a flexible-link manipulator with PDE model. Journal of Sound and Vibration, 2015, 341, 237-245.	3.9	50
119	Boundary control for a flexible manipulator based on infinite dimensional disturbance observer. Journal of Sound and Vibration, 2015, 348, 1-14.	3.9	59
120	Adaptive boundary control for flexible twoâ€link manipulator based on partial differential equation dynamic model. IET Control Theory and Applications, 2013, 7, 43-51.	2.1	80
121	Modelling and neural adaptive vibration control for three-dimensional Timoshenko beam with output restrictions and external disturbances. International Journal of Systems Science, 0, , 1-18.	5.5	1
122	Nonlinear partial differential equation modeling and adaptive faultâ€tolerant vibration control of flexible rotatable manipulator in threeâ€dimensional space. International Journal of Adaptive Control and Signal Processing, 0, , .	4.1	3
123	Vibration suppression and faultâ€tolerant control of an aerial refueling hose with multiple actuators. Asian Journal of Control, 0, , .	3.0	1