

Zhijie Liu

List of Publications by Year in descending order

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123
papers

2,913
citations

172457

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127
all docs

127
docs citations

127
times ranked

1240
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and vibration control of a flexible aerial refueling hose with variable lengths and input constraint. <i>Automatica</i> , 2017, 77, 302-310.	5.0	237
2	Modeling and adaptive control for a spatial flexible spacecraft with unknown actuator failures. <i>Science China Information Sciences</i> , 2021, 64, 1.	4.3	131
3	An adaptive RBF neural network control method for a class of nonlinear systems. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2018, 5, 457-462.	13.1	124
4	Robust adaptive fault tolerant control for a linear cascaded ODE-beam system. <i>Automatica</i> , 2018, 98, 42-50.	5.0	113
5	Boundary adaptive fault-tolerant control for a flexible Timoshenko arm with backlash-like hysteresis. <i>Automatica</i> , 2021, 130, 109690.	5.0	93
6	Neural network based boundary control of a vibrating string system with input deadzone. <i>Neurocomputing</i> , 2018, 275, 1021-1027.	5.9	91
7	Disturbance observer based attitude control for flexible spacecraft with input magnitude and rate constraints. <i>Aerospace Science and Technology</i> , 2018, 72, 486-492.	4.8	90
8	Adaptive boundary control of a flexible manipulator with input saturation. <i>International Journal of Control</i> , 2016, 89, 1191-1202.	1.9	82
9	Control design for a vibrating flexible marine riser system. <i>Journal of the Franklin Institute</i> , 2017, 354, 8117-8133.	3.4	82
10	Adaptive boundary control for flexible two-link manipulator based on partial differential equation dynamic model. <i>IET Control Theory and Applications</i> , 2013, 7, 43-51.	2.1	80
11	Finite-time convergence disturbance rejection control for a flexible Timoshenko manipulator. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 157-168.	13.1	77
12	An adaptive iterative learning algorithm for boundary control of a coupled ODE-PDE two-link rigid-flexible manipulator. <i>Journal of the Franklin Institute</i> , 2017, 354, 277-297.	3.4	71
13	Trajectory Tracking Control for a Three-Dimensional Flexible Wing. <i>IEEE Transactions on Control Systems Technology</i> , 2022, 30, 2243-2250.	5.2	68
14	Vibration Control for Spatial Aerial Refueling Hoses With Bounded Actuators. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 4209-4217.	7.9	67
15	Dynamic modeling and vibration control for a nonlinear 3-dimensional flexible manipulator. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 3927-3945.	3.7	64
16	Boundary Constrained Control of Flexible String Systems Subject to Disturbances. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 112-116.	3.0	63
17	Boundary Feedback Control of a Nonhomogeneous Wind Turbine Tower With Exogenous Disturbances. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 1952-1959.	5.7	63
18	Boundary control for a flexible manipulator based on infinite dimensional disturbance observer. <i>Journal of Sound and Vibration</i> , 2015, 348, 1-14.	3.9	59

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19	Boundary Control of a Flexible Robotic Manipulator With Output Constraints. <i>Asian Journal of Control</i> , 2017, 19, 332-345.	3.0	58
20	Partial differential equation boundary control of a flexible manipulator with input saturation. <i>International Journal of Systems Science</i> , 2017, 48, 53-62.	5.5	51
21	Observer design for a flexible-link manipulator with PDE model. <i>Journal of Sound and Vibration</i> , 2015, 341, 237-245.	3.9	50
22	Adaptive formation control of quadrotor unmanned aerial vehicles with bounded control thrust. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 807-817.	5.3	48
23	Vibration control for a rigid-flexible manipulator with full state constraints via Barrier Lyapunov Function. <i>Journal of Sound and Vibration</i> , 2017, 406, 237-252.	3.9	45
24	Distributed piezoelectric vibration control for a flexible-link manipulator based on an observer in the form of partial differential equations. <i>Journal of Sound and Vibration</i> , 2016, 363, 77-96.	3.9	39
25	An adaptive iterative learning algorithm for boundary control of a flexible manipulator. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017, 31, 903-916.	4.1	36
26	Vibration control for a flexible satellite with input constraint based on Nussbaum function via backstepping method. <i>Aerospace Science and Technology</i> , 2018, 77, 563-572.	4.8	36
27	Boundary control of an Euler-Bernoulli beam with input and output restrictions. <i>Nonlinear Dynamics</i> , 2018, 92, 531-541.	5.2	35
28	Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 4127-4138.	9.3	34
29	Modeling and robust adaptive iterative learning control of a vehicle-based flexible manipulator with uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 2385-2405.	3.7	32
30	Dynamic modeling and vibration control of a flexible aerial refueling hose. <i>Aerospace Science and Technology</i> , 2016, 55, 92-102.	4.8	31
31	Adaptive Iterative Learning Boundary Control of a Flexible Manipulator with Guaranteed Transient Performance. <i>Asian Journal of Control</i> , 2018, 20, 1027-1038.	3.0	29
32	Adaptive actuator fault compensation control for a rigid-flexible manipulator with ODEs-PDEs model. <i>International Journal of Systems Science</i> , 2018, 49, 1748-1759.	5.5	27
33	Vibration control for a nonlinear three-dimensional Euler-Bernoulli beam under input magnitude and rate constraints. <i>Nonlinear Dynamics</i> , 2018, 91, 2551-2570.	5.2	25
34	Adaptive actuator fault-tolerant control for a three-dimensional Euler-Bernoulli beam with output constraints and uncertain end load. <i>Journal of the Franklin Institute</i> , 2019, 356, 3869-3898.	3.4	22
35	Active Vibration Control for a Flexible-Link Manipulator with Input Constraint Based on a Disturbance Observer. <i>Asian Journal of Control</i> , 2019, 21, 847-855.	3.0	22
36	Three-dimensional modeling and input saturation control for a two-link flexible manipulator based on infinite dimensional model. <i>Journal of the Franklin Institute</i> , 2020, 357, 1026-1042.	3.4	21

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37	Output Constrained Adaptive Controller Design for Nonlinear Saturation Systems. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 441-454.	13.1	21
38	Adaptive fault-tolerant boundary control for a flexible aircraft wing with input constraints. Aerospace Science and Technology, 2019, 90, 34-43.	4.8	20
39	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
40	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
41	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
42	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
43	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
44	Partial differential equation modeling and vibration control for a nonlinear 3D rigid-flexible manipulator system with actuator faults. International Journal of Robust and Nonlinear Control, 2019, 29, 3793-3807.	3.7	17
45	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
46	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
47	Vibration Control for Flexible Manipulators With Event-Triggering Mechanism and Actuator Failures. IEEE Transactions on Cybernetics, 2022, 52, 7591-7601.	9.5	16
48	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
49	Vibration control for nonlinear overhead crane bridge subject to actuator failures and output constraints. Nonlinear Dynamics, 2020, 101, 419-438.	5.2	15
50	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
51	Vibration control of a flexible aerial refuelling hose with input saturation. International Journal of Systems Science, 2017, 48, 971-983.	5.5	14
52	Event-triggered neural network control for a class of uncertain nonlinear systems with input quantization. Neurocomputing, 2021, 440, 240-250.	5.9	14
53	Adaptive neural network control for a nonlinear Euler-Bernoulli beam in three-dimensional space with unknown control direction. International Journal of Robust and Nonlinear Control, 2019, 29, 4494-4514.	3.7	13
54	Active Control of an Elastic Beam Based on State and Input Constraints. IEEE Access, 2018, 6, 10635-10643.	4.2	12

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55	Parallel Control of Distributed Parameter Systems. IEEE Transactions on Cybernetics, 2018, 48, 3291-3301.	9.5	12
56	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
57	Fuzzy Observer for 2-D Parabolic Equation With Output Time Delay. IEEE Transactions on Fuzzy Systems, 2021, 29, 3552-3560.	9.8	12
58	Adaptive fault-tolerant vibration control of a wind turbine blade with actuator stuck. International Journal of Control, 2020, 93, 713-724.	1.9	11
59	Vibration control of flexible manipulator with unknown control direction. International Journal of Control, 2021, 94, 2690-2702.	1.9	11
60	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
61	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
62	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
63	Boundary vibration suppression for a flexible three-dimensional marine riser against unknown sensor and actuator faults. International Journal of Robust and Nonlinear Control, 2021, 31, 1438-1451.	3.7	10
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	Sliding mode control for underactuated system with input constraint based on RBF neural network and Hurwitz stability analysis. <i>Asian Journal of Control</i> , 2022, 24, 3032-3042.	3.0	8
74	Adaptive Distributed Control of a Flexible Manipulator Using an Iterative Learning Scheme. <i>IEEE Access</i> , 2019, 7, 145934-145943.	4.2	7
75	Observer-based H_∞ control of a stochastic Korteweg-de Vries-Burgers equation. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 5943-5961.	3.7	7
76	Adaptive Event-Triggered Boundary Control for a Flexible Manipulator With Input Quantization. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 3706-3716.	5.8	7
77	Nonlinear disturbance observer-based direct joint control for manipulation of a flexible payload with output constraints. <i>International Journal of Control</i> , 2023, 96, 1377-1388.	1.9	7
78	Cooperative Fault-Tolerant Control for a Mobile Dual Flexible Manipulator With Output Constraints. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 2689-2698.	5.2	6
79	Boundary control for PDE flexible manipulators: Accommodation to both actuator faults and sensor faults. <i>Asian Journal of Control</i> , 2022, 24, 1700-1712.	3.0	6
80	Adaptive neural network control for nonlinear cyber-physical systems subject to false data injection attacks with prescribed performance. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200372.	3.4	6
81	Vibration control for the payload at the end of a nonlinear three-dimensional Euler-Bernoulli beam with input constraints. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 3088-3094.	1.7	5
82	Adaptive singularity-free controller design of constrained nonlinear systems with prescribed performance. <i>Neurocomputing</i> , 2020, 417, 212-223.	5.9	5
83	Bilateral coordination control of flexible master-slave manipulators using a partial differential equation model. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 1561-1572.	2.6	5
84	Adaptive Vibration Control for an Active Mass Damper of a High-Rise Building. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 1970-1983.	9.3	5
85	Three-dimensional vibration suppression for an Euler-Bernoulli beam with asymmetric output constraint. <i>Journal of the Franklin Institute</i> , 2021, 358, 3470-3490.	3.4	5
86	Adaptive fault-tolerant robust control based on radial basis function neural network for a class of mechanical systems with input constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 4099-4112.	3.7	5
87	Stabilization control of a flexible marine riser with failed and bounded actuator and time-varying boundary constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 7621-7639.	3.7	4
88	Vibration and Event-Triggered Control for Flexible Nonlinear Three-Dimensional Euler-Bernoulli Beam System. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020, 15, .	1.2	4
89	Vibration and position tracking control for a flexible Timoshenko robot arm with disturbance rejection mechanism. <i>Assembly Automation</i> , 2022, 42, 248-257.	1.7	4
90	Active disturbance rejection controllers optimized via adaptive granularity learning distributed pigeon-inspired optimization for autonomous aerial refueling hose-drogue system. <i>Aerospace Science and Technology</i> , 2022, 124, 107528.	4.8	4

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91	Deadzone compensation based boundary control of a flexible aerial refueling hose with output constraint. IFAC-PapersOnLine, 2017, 50, 645-650.	0.9	3
92	Single Parameter Adaptive Control of Unknown Nonlinear Systems with Tracking Error Constraints. Complexity, 2018, 2018, 1-9.	1.6	3
93	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
94	Modeling and distributed adaptive fault-tolerant vibration control for bridge beam with single-parameter adaptive neural network. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1831-1846.	4.1	3
95	LMI-based robust adaptive neural network control for Euler-Bernoulli beam with uncertain parameters and disturbances. International Journal of Control, 2022, 95, 1-10.	1.9	3
96	Nonlinear partial differential equation modeling and adaptive fault-tolerant vibration control of flexible rotatable manipulator in three-dimensional space. International Journal of Adaptive Control and Signal Processing, 0, , .	4.1	3
97	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
98	Event-triggered adaptive fault-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
99	Output constraints vibration control for a flexible aircraft wing with prescribed performance. International Journal of Systems Science, 2021, 52, 2241-2254.	5.5	2
100	Event-triggered boundary control of a flexible manipulator with uncertain end load. International Journal of Control, 2023, 96, 124-135.	1.9	2
101	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
102	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
103	Adaptive Fault-Tolerant Control of Flexible Mobile Manipulator. , 2019, , .		1
104	Fault-Tolerant Control for a Vibrating Nanobeam System. , 2019, , .		1
105	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
106	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
107	PDE modeling and control of a cylindrical soft manipulator with bounded cable tension. , 2021, , .		1
108	Towards symbiotic autonomous systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200359.	3.4	1

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109	Nonlinear Partial Differential Equation Model-Based Coordination Control for a Master-Slave Two-Link Rigid-Flexible Manipulator With Vibration Repression. <i>Journal of Computational and Nonlinear Dynamics</i> , 2021, 16, .	1.2	1
110	Adaptive neural network control for a soft robotic manipulator. , 2020, , .		1
111	Vibration suppression and fault-tolerant control of an aerial refueling hose with multiple actuators. <i>Asian Journal of Control</i> , 0, , .	3.0	1
112	Adaptive vibration control for constrained moving vehicle-mounted nonlinear 3D rigid-flexible manipulator system subject to actuator failures. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 4155-4171.	2.6	1
113	Disturbance observer based boundary control of a flexible manipulator with input saturation. , 2017, , .		0
114	Boundary Control for a Flexible String System with Prescribed Bound. , 2019, , .		0
115	Singular Perturbation Approach based Boundary Control of a Flexible Manipulator with High Gain Observer. , 2019, , .		0
116	PDE Control of Vehicle-mounted Flexible Link with Input Saturation and Disturbances. , 2020, , .		0
117	Vibration Control of a Flexible Beam. , 2019, , 33-57.		0
118	Adaptive Control for a Constrained Soft Manipulator with Prescribed Performance. <i>IFAC-PapersOnLine</i> , 2020, 53, 524-529.	0.9	0
119	Stabilization of Flexible Satellite with Unknown Input Deadzone. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 791-801.	0.4	0
120	Attitude control of flexible anti-symmetric satellite with restricted tracking error. , 2020, , .		0
121	Vibration Control of a Probe-and-Drogue Refueling Hose System with Prescribed Bound. , 2020, , .		0
122	Adaptive fault-tolerant control for a three-tank system with height and rate constraints. , 2021, , .		0
123	Observer-based feedback control for linear parabolic PDEs with quantized input. , 2021, , .		0