

Jinkun Liu

List of Publications by Year in descending order

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120
papers

2,648
citations

218381

26
h-index

223531

46
g-index

125
all docs

125
docs citations

125
times ranked

1386
citing authors

#	ARTICLE	IF	CITATIONS
1	Event-triggered boundary control of a flexible manipulator with uncertain end load. <i>International Journal of Control</i> , 2023, 96, 124-135.	1.2	2
2	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.	1.5	1
3	LMI-based robust adaptive neural network control for Euler-Bernoulli beam with uncertain parameters and disturbances. <i>International Journal of Control</i> , 2022, 95, 1-10.	1.2	3
4	Adaptive fault-tolerant boundary vibration control for a flexible aircraft wing against actuator and sensor faults. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 1025-1034.	1.5	8
5	Robust Adaptive Control Allocation for a Class of Cascade ODE-String Systems With Actuator Failures. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 1474-1481.	3.6	15
6	Adaptive Neural Control of a Class of Uncertain State and Input-Delayed Systems With Input Magnitude and Rate Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 6837-6851.	5.9	3
7	Boundary control for PDE flexible manipulators: Accommodation to both actuator faults and sensor faults. <i>Asian Journal of Control</i> , 2022, 24, 1700-1712.	1.9	6
8	Event-triggered vibration control for a class of flexible mechanical systems with bending deformation and torsion deformation based on PDE model. <i>Mechanical Systems and Signal Processing</i> , 2022, 164, 108255.	4.4	11
9	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.	1.9	8
10	Quantization control for flexible manipulators with PDE model. <i>Asian Journal of Control</i> , 2022, 24, 3117-3132.	1.9	1
11	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.	2.1	5
12	Event-triggered adaptive fault-tolerant vibration control for a flexible robotic manipulator based on the partial differential equation model. <i>International Journal of Adaptive Control and Signal Processing</i> , 2022, 36, 2083-2099.	2.3	3
13	Vibration control of flexible manipulator with unknown control direction. <i>International Journal of Control</i> , 2021, 94, 2690-2702.	1.2	11
14	Coordination and vibration control for two sets of flexible satellites with input constraints and actuator failures. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 1281-1296.	1.5	1
15	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.	1.5	5
16	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.	5.9	34
17	Boundary vibration suppression for a flexible three-dimensional marine riser against unknown sensor and actuator faults. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 1438-1451.	2.1	10
18	Adaptive Control with Quantized Inputs Processed by Lipschitz Logarithmic Quantizer. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 921-930.	1.6	7

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19	Output constraints vibration control for a flexible aircraft wing with prescribed performance. International Journal of Systems Science, 2021, 52, 2241-2254.	3.7	2
20	Event-triggered boundary quantization control for flexible manipulator based on partial differential equations dynamic model. Transactions of the Institute of Measurement and Control, 2021, 43, 2111-2123.	1.1	10
21	Nonlinear Partial Differential Equation Model-Based Coordination Control for a Master-Slave Two-Link Rigid-Flexible Manipulator With Vibration Repression. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	0.7	1
22	Sliding Mode Control on Coordination of Master-Slave Manipulator. Lecture Notes in Electrical Engineering, 2021, , 242-250.	0.3	0
23	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.	1.9	12
24	Control of VTOL aircraft with position state constraints using the Barrier Lyapunov Function. Asian Journal of Control, 2020, 22, 1221-1229.	1.9	6
25	Adaptive fault-tolerant vibration control of a wind turbine blade with actuator stuck. International Journal of Control, 2020, 93, 713-724.	1.2	11
26	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.	1.1	16
27	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.	1.1	10
28	Adaptive neural network vibration control of a flexible aircraft wing system with input signal quantization. Aerospace Science and Technology, 2020, 96, 105593.	2.5	32
29	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.	1.9	21
30	Adaptive vibration control for flexible satellite with output constraint and unknown control direction. Journal of the Franklin Institute, 2020, 357, 10600-10625.	1.9	13
31	Sliding mode control based on RBF neural network for a class of underactuated systems with unknown sensor and actuator faults. International Journal of Systems Science, 2020, 51, 3539-3549.	3.7	13
32	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.	2.3	3
33	PDE Control of Vehicle-mounted Flexible Link with Input Saturation and Disturbances. , 2020, , .		0
34	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.	1.2	16
35	Vibration control for nonlinear overhead crane bridge subject to actuator failures and output constraints. Nonlinear Dynamics, 2020, 101, 419-438.	2.7	15
36	Distributed vibration control for flexible spacecraft with distributed disturbance and actuator fault. Journal of Sound and Vibration, 2020, 475, 115274.	2.1	23

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37	Vibration and Event-Triggered Control for Flexible Nonlinear Three-Dimensional Euler-Bernoulli Beam System. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	4
38	Vibration control of nonlinear three-dimensional length-varying string with input quantization. JVC/Journal of Vibration and Control, 2020, 26, 1835-1847.	1.5	11
39	Adaptive Sliding Mode Trajectory Tracking Control of Quadrotor UAV with Unknown Control Direction. Lecture Notes in Electrical Engineering, 2020, , 597-607.	0.3	2
40	Adaptive neural network control of an arm-string system with actuator fault based on a PDE model. JVC/Journal of Vibration and Control, 2019, 25, 172-181.	1.5	23
41	Adaptive fault-tolerant control for a nonlinear flexible aircraft wing system. Asian Journal of Control, 2019, 21, 2340-2351.	1.9	22
42	Dynamics and Noncollocated Model-Free Position Control for a Space Robot with Multi-Link Flexible Manipulators. Asian Journal of Control, 2019, 21, 714-724.	1.9	16
43	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.	2.1	13
44	Boundary vibration control for a two-link rigid-flexible manipulator with quantized input. JVC/Journal of Vibration and Control, 2019, 25, 2935-2945.	1.5	18
45	Adaptive fault-tolerant control for a joint flexible manipulator based on dynamic surface. Transactions of the Institute of Measurement and Control, 2019, 41, 4240-4253.	1.1	9
46	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.	2.1	17
47	Adaptive fault-tolerant boundary control for a flexible aircraft wing with input constraints. Aerospace Science and Technology, 2019, 90, 34-43.	2.5	20
48	Adaptive actuator fault-tolerant control for a three-dimensional Euler-Bernoulli beam with output constraints and uncertain end load. Journal of the Franklin Institute, 2019, 356, 3869-3898.	1.9	22
49	Modeling and robust adaptive iterative learning control of a vehicle-based flexible manipulator with uncertainties. International Journal of Robust and Nonlinear Control, 2019, 29, 2385-2405.	2.1	32
50	Adaptive Fault-Tolerant Control of Flexible Mobile Manipulator. , 2019, , .		1
51	Fault-Tolerant Control for a Vibrating Nanobeam System. , 2019, , .		1
52	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.	2.1	15
53	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.	2.7	9
54	Modeling and vibration control of aero two-blade propeller with input magnitude and rate saturations. Aerospace Science and Technology, 2019, 84, 412-430.	2.5	8

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55	Active Vibration Control for a Flexible Link Manipulator with Input Constraint Based on a Disturbance Observer. Asian Journal of Control, 2019, 21, 847-855.	1.9	22
56	LMI-based boundary and distributed control design for a flexible string subject to disturbance. International Journal of Control, 2019, 92, 1959-1969.	1.2	8
57	An adaptive RBF neural network control method for a class of nonlinear systems. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 457-462.	8.5	124
58	Boundary Control for Flexible Manipulator with Exponential Convergence. , 2018, , 45-63.		0
59	Distributed Parameter Modeling and Boundary Control of Flexible Manipulators. , 2018, , .		19
60	Vibration control for a flexible satellite with input constraint based on Nussbaum function via backstepping method. Aerospace Science and Technology, 2018, 77, 563-572.	2.5	36
61	Vibration control for a nonlinear three-dimensional Euler-Bernoulli beam under input magnitude and rate constraints. Nonlinear Dynamics, 2018, 91, 2551-2570.	2.7	25
62	Boundary control of an Euler-Bernoulli beam with input and output restrictions. Nonlinear Dynamics, 2018, 92, 531-541.	2.7	35
63	Boundary Control for a Flexible Inverted Pendulum System Based on a PDE Model with Input Saturation. Asian Journal of Control, 2018, 20, 2026-2033.	1.9	6
64	Optimal trajectory control for a two-link rigid-flexible manipulator with ODE-PDE model. Optimal Control Applications and Methods, 2018, 39, 1515-1529.	1.3	17
65	Dynamic modeling and vibration control for a nonlinear 3-dimensional flexible manipulator. International Journal of Robust and Nonlinear Control, 2018, 28, 3927-3945.	2.1	64
66	Switching fault-tolerant control of a moving vehicle-mounted flexible manipulator system with state constraints. Journal of the Franklin Institute, 2018, 355, 3050-3078.	1.9	17
67	Trajectory tracking control of a 6-DOF quadrotor UAV with input saturation via backstepping. Journal of the Franklin Institute, 2018, 355, 3288-3309.	1.9	101
68	Boundary control for a flexible manipulator with a robust state observer. JVC/Journal of Vibration and Control, 2018, 24, 260-271.	1.5	16
69	Adaptive Iterative Learning Boundary Control of a Flexible Manipulator with Guaranteed Transient Performance. Asian Journal of Control, 2018, 20, 1027-1038.	1.9	29
70	Boundary Control for A Flexible Inverted Pendulum System Based on A Pde Model. Asian Journal of Control, 2018, 20, 12-21.	1.9	16
71	Boundary control for a constrained two-link rigid-flexible manipulator with prescribed performance. International Journal of Control, 2018, 91, 1091-1103.	1.2	27
72	Vibration control for the payload at the end of a nonlinear three-dimensional Euler-Bernoulli beam with input constraints. Transactions of the Institute of Measurement and Control, 2018, 40, 3088-3094.	1.1	5

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73	Disturbance observer design and vibration control for a flexible aircraft wing. Transactions of the Institute of Measurement and Control, 2018, 40, 3760-3773.	1.1	10
74	Disturbance observer based attitude control for flexible spacecraft with input magnitude and rate constraints. Aerospace Science and Technology, 2018, 72, 486-492.	2.5	90
75	Adaptive Fault-Tolerant Control for a Flexible Manipulator of Output-Constrained. , 2018, , .		0
76	Backstepping Control of Flexible Joint Manipulator Based on Hyperbolic Tangent Function with Control Input Constraint. , 2018, , .		0
77	Robust adaptive fault tolerant control for a linear cascaded ODE-beam system. Automatica, 2018, 98, 42-50.	3.0	113
78	Distributed disturbance-observer-based vibration control for a flexible-link manipulator with output constraints. Science China Technological Sciences, 2018, 61, 1528-1536.	2.0	20
79	Adaptive boundary control for flexible three-dimensional Euler-Bernoulli beam with input signal quantization. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1162-1181.	2.3	13
80	Parameter Identification for a Quadrotor Helicopter Using Multivariable Extremum Seeking Algorithm. International Journal of Control, Automation and Systems, 2018, 16, 1951-1961.	1.6	13
81	Adaptive actuator fault compensation control for a rigid-flexible manipulator with ODEs-PDEs model. International Journal of Systems Science, 2018, 49, 1748-1759.	3.7	27
82	Infinite Dimensional Disturbance Observer for Flexible Manipulator. , 2018, , 125-134.		0
83	A robust observer design for a flexible manipulator based on a PDE model. JVC/Journal of Vibration and Control, 2017, 23, 871-882.	1.5	23
84	Partial differential equation boundary control of a flexible manipulator with input saturation. International Journal of Systems Science, 2017, 48, 53-62.	3.7	51
85	Modeling and vibration control of a flexible aerial refueling hose with variable lengths and input constraint. Automatica, 2017, 77, 302-310.	3.0	237
86	Adaptive formation control of quadrotor unmanned aerial vehicles with bounded control thrust. Chinese Journal of Aeronautics, 2017, 30, 807-817.	2.8	48
87	Vibration control for a rigid-flexible manipulator with full state constraints via Barrier Lyapunov Function. Journal of Sound and Vibration, 2017, 406, 237-252.	2.1	45
88	Vibration control of a flexible aerial refuelling hose with input saturation. International Journal of Systems Science, 2017, 48, 971-983.	3.7	14
89	An adaptive iterative learning algorithm for boundary control of a coupled ODE-PDE two-link rigid-flexible manipulator. Journal of the Franklin Institute, 2017, 354, 277-297.	1.9	71
90	Modeling and vibration control for a flexible pendulum inverted system based on a PDE observer. International Journal of Control, 2017, 90, 1736-1751.	1.2	8

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91	Boundary Control of a Flexible Robotic Manipulator With Output Constraints. Asian Journal of Control, 2017, 19, 332-345.	1.9	58
92	An adaptive iterative learning algorithm for boundary control of a flexible manipulator. International Journal of Adaptive Control and Signal Processing, 2017, 31, 903-916.	2.3	36
93	Deadzone compensation based boundary control of a flexible aerial refueling hose with output constraint. IFAC-PapersOnLine, 2017, 50, 645-650.	0.5	3
94	Disturbance observer based boundary control of a flexible manipulator with input saturation. , 2017, , .		0
95	Trajectory optimization of a flexible manipulator using backstepping in the form of partial differential equations. , 2017, , .		0
96	Boundary and Distributed Control for a Nonlinear Threeâ€³Dimensional Eulerâ€³Bernoulli Beam Based On Infinite Dimensional Disturbance Observer. Asian Journal of Control, 2016, 18, 2047-2063.	1.9	9
97	Dynamic modeling and vibration control of a flexible aerial refueling hose. Aerospace Science and Technology, 2016, 55, 92-102.	2.5	31
98	An observer for a velocity-sensorless VTOL aircraft with time-varying measurement delay. International Journal of Systems Science, 2016, 47, 652-661.	3.7	18
99	Adaptive boundary control of a flexible manipulator with input saturation. International Journal of Control, 2016, 89, 1191-1202.	1.2	82
100	Vibration control for a nonlinear three-dimensional flexible manipulator trajectory tracking. International Journal of Control, 2016, 89, 1641-1663.	1.2	15
101	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.	2.1	39
102	Observer-based stabilisation of a class of nonlinear systems in the presence of measurement delay. International Journal of Control, 2016, 89, 1180-1190.	1.2	6
103	Observer design for a flexible-link manipulator with PDE model. Journal of Sound and Vibration, 2015, 341, 237-245.	2.1	50
104	Boundary control for a flexible manipulator based on infinite dimensional disturbance observer. Journal of Sound and Vibration, 2015, 348, 1-14.	2.1	59
105	Sliding mode observer for a class of globally Lipschitz nonâ€³linear systems with timeâ€³varying delay and noise in its output. IET Control Theory and Applications, 2014, 8, 1328-1336.	1.2	12
106	Adaptive boundary control for flexible twoâ€³link manipulator based on partial differential equation dynamic model. IET Control Theory and Applications, 2013, 7, 43-51.	1.2	80
107	Parameter identification for a quadrotor helicopter using PSO. , 2013, , .		7
108	Identification of underactuated manipulator based on genetic algorithm. , 2012, , .		1

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109	Nonlinear PDE observer design for a flexible two-link manipulator. , 2012, , .		4
110	Boundary Stabilization for a Class of Hyperbolic PDEs with a Free End. , 2012, , .		0
111	Neural network based adaptive dynamic surface control for flight path angle. , 2012, , .		4
112	Optimal trajectory control of flexible two-link manipulator based on PDE model. , 2012, , .		6
113	Adaptive RBF neural network control of robot with actuator nonlinearities. Journal of Control Theory and Applications, 2010, 8, 249-256.	0.8	26
114	Tracking control for VTOL aircraft with disabled IMUs. International Journal of Systems Science, 2010, 41, 1231-1239.	3.7	12
115	Tracking control for a velocity-sensorless VTOL aircraft with delayed outputs. Automatica, 2009, 45, 2876-2882.	3.0	56
116	A novel dynamic terminal sliding mode control of uncertain nonlinear systems. Journal of Control Theory and Applications, 2007, 5, 189-193.	0.8	78
117	Chattering free adaptive fuzzy terminal sliding mode control for second order nonlinear system. Journal of Control Theory and Applications, 2006, 4, 385-391.	0.8	17
118	Bilateral coordination quantisation control for master-slave flexible manipulators based on PDE dynamic model. International Journal of Control, 0, , 1-14.	1.2	4
119	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.	3.7	1
120	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, , .	2.3	3