

# 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	Modeling and vibration control of a flexible aerial refueling hose with variable lengths and input constraint. <i>Automatica</i> , 2017, 77, 302-310.	3.0	237
2	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.	8.5	124
3	Robust adaptive fault tolerant control for a linear cascaded ODE-beam system. <i>Automatica</i> , 2018, 98, 42-50.	3.0	113
4	Trajectory tracking control of a 6-DOF quadrotor UAV with input saturation via backstepping. <i>Journal of the Franklin Institute</i> , 2018, 355, 3288-3309.	1.9	101
5	Disturbance observer based attitude control for flexible spacecraft with input magnitude and rate constraints. <i>Aerospace Science and Technology</i> , 2018, 72, 486-492.	2.5	90
6	Adaptive boundary control of a flexible manipulator with input saturation. <i>International Journal of Control</i> , 2016, 89, 1191-1202.	1.2	82
7	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.	1.2	80
8	A novel dynamic terminal sliding mode control of uncertain nonlinear systems. <i>Journal of Control Theory and Applications</i> , 2007, 5, 189-193.	0.8	78
9	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.	1.9	71
10	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.	2.1	64
11	Boundary control for a flexible manipulator based on infinite dimensional disturbance observer. <i>Journal of Sound and Vibration</i> , 2015, 348, 1-14.	2.1	59
12	Boundary Control of a Flexible Robotic Manipulator With Output Constraints. <i>Asian Journal of Control</i> , 2017, 19, 332-345.	1.9	58
13	Tracking control for a velocity-sensorless VTOL aircraft with delayed outputs. <i>Automatica</i> , 2009, 45, 2876-2882.	3.0	56
14	Partial differential equation boundary control of a flexible manipulator with input saturation. <i>International Journal of Systems Science</i> , 2017, 48, 53-62.	3.7	51
15	Observer design for a flexible-link manipulator with PDE model. <i>Journal of Sound and Vibration</i> , 2015, 341, 237-245.	2.1	50
16	Adaptive formation control of quadrotor unmanned aerial vehicles with bounded control thrust. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 807-817.	2.8	48
17	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.	2.1	45
18	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.	2.1	39

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19	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.	2.3	36
20	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.	2.5	36
21	Boundary control of an Euler-Bernoulli beam with input and output restrictions. <i>Nonlinear Dynamics</i> , 2018, 92, 531-541.	2.7	35
22	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
23	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.	2.1	32
24	Adaptive neural network vibration control of a flexible aircraft wing system with input signal quantization. <i>Aerospace Science and Technology</i> , 2020, 96, 105593.	2.5	32
25	Dynamic modeling and vibration control of a flexible aerial refueling hose. <i>Aerospace Science and Technology</i> , 2016, 55, 92-102.	2.5	31
26	Adaptive Iterative Learning Boundary Control of a Flexible Manipulator with Guaranteed Transient Performance. <i>Asian Journal of Control</i> , 2018, 20, 1027-1038.	1.9	29
27	Boundary control for a constrained two-link rigid-flexible manipulator with prescribed performance. <i>International Journal of Control</i> , 2018, 91, 1091-1103.	1.2	27
28	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.	3.7	27
29	Adaptive RBF neural network control of robot with actuator nonlinearities. <i>Journal of Control Theory and Applications</i> , 2010, 8, 249-256.	0.8	26
30	Vibration control for a nonlinear three-dimensional Euler-Bernoulli beam under input magnitude and rate constraints. <i>Nonlinear Dynamics</i> , 2018, 91, 2551-2570.	2.7	25
31	A robust observer design for a flexible manipulator based on a PDE model. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 871-882.	1.5	23
32	Adaptive neural network control of an arm-string system with actuator fault based on a PDE model. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 172-181.	1.5	23
33	Distributed vibration control for flexible spacecraft with distributed disturbance and actuator fault. <i>Journal of Sound and Vibration</i> , 2020, 475, 115274.	2.1	23
34	Adaptive fault-tolerant control for a nonlinear flexible aircraft wing system. <i>Asian Journal of Control</i> , 2019, 21, 2340-2351.	1.9	22
35	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.	1.9	22
36	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.	1.9	22

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37	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.	1.9	21
38	Distributed disturbance-observer-based vibration control for a flexible-link manipulator with output constraints. <i>Science China Technological Sciences</i> , 2018, 61, 1528-1536.	2.0	20
39	Adaptive fault-tolerant boundary control for a flexible aircraft wing with input constraints. <i>Aerospace Science and Technology</i> , 2019, 90, 34-43.	2.5	20
40	Distributed Parameter Modeling and Boundary Control of Flexible Manipulators. , 2018, , .		19
41	An observer for a velocity-sensorless VTOL aircraft with time-varying measurement delay. <i>International Journal of Systems Science</i> , 2016, 47, 652-661.	3.7	18
42	Boundary vibration control for a two-link rigid-flexible manipulator with quantized input. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 2935-2945.	1.5	18
43	Chattering free adaptive fuzzy terminal sliding mode control for second order nonlinear system. <i>Journal of Control Theory and Applications</i> , 2006, 4, 385-391.	0.8	17
44	Optimal trajectory control for a two-link rigid-flexible manipulator with ODE-PDE model. <i>Optimal Control Applications and Methods</i> , 2018, 39, 1515-1529.	1.3	17
45	Switching fault-tolerant control of a moving vehicle-mounted flexible manipulator system with state constraints. <i>Journal of the Franklin Institute</i> , 2018, 355, 3050-3078.	1.9	17
46	Partial differential equation modeling and vibration control for a nonlinear 3D rigid-flexible manipulator system with actuator faults. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 3793-3807.	2.1	17
47	Boundary control for a flexible manipulator with a robust state observer. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 260-271.	1.5	16
48	Boundary Control for A Flexible Inverted Pendulum System Based on A Pde Model. <i>Asian Journal of Control</i> , 2018, 20, 12-21.	1.9	16
49	Dynamics and Noncollocated Model-Free Position Control for a Space Robot with Multi-Link Flexible Manipulators. <i>Asian Journal of Control</i> , 2019, 21, 714-724.	1.9	16
50	Neural-network-based adaptive fault-tolerant vibration control of single-link flexible manipulator. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 430-438.	1.1	16
51	PDE modelling and vibration control of overhead crane bridge with unknown control directions and parametric uncertainties. <i>IET Control Theory and Applications</i> , 2020, 14, 116-126.	1.2	16
52	Vibration control for a nonlinear three-dimensional flexible manipulator trajectory tracking. <i>International Journal of Control</i> , 2016, 89, 1641-1663.	1.2	15
53	PDE model-based state-feedback control of constrained moving vehicle-mounted flexible manipulator with prescribed performance. <i>Journal of Sound and Vibration</i> , 2019, 441, 126-151.	2.1	15
54	Vibration control for nonlinear overhead crane bridge subject to actuator failures and output constraints. <i>Nonlinear Dynamics</i> , 2020, 101, 419-438.	2.7	15

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55	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
56	Vibration control of a flexible aerial refuelling hose with input saturation. <i>International Journal of Systems Science</i> , 2017, 48, 971-983.	3.7	14
57	Adaptive boundary control for flexible three-dimensional Euler-Bernoulli beam with input signal quantization. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 1162-1181.	2.3	13
58	Parameter Identification for a Quadrotor Helicopter Using Multivariable Extremum Seeking Algorithm. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 1951-1961.	1.6	13
59	Adaptive neural network control for a nonlinear Euler-Bernoulli beam in three-dimensional space with unknown control direction. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 4494-4514.	2.1	13
60	Adaptive vibration control for flexible satellite with output constraint and unknown control direction. <i>Journal of the Franklin Institute</i> , 2020, 357, 10600-10625.	1.9	13
61	Sliding mode control based on RBF neural network for a class of underactuated systems with unknown sensor and actuator faults. <i>International Journal of Systems Science</i> , 2020, 51, 3539-3549.	3.7	13
62	Tracking control for VTOL aircraft with disabled IMUs. <i>International Journal of Systems Science</i> , 2010, 41, 1231-1239.	3.7	12
63	Sliding mode observer for a class of globally Lipschitz nonlinear systems with time-varying delay and noise in its output. <i>IET Control Theory and Applications</i> , 2014, 8, 1328-1336.	1.2	12
64	Backstepping control of flexible joint manipulator based on hyperbolic tangent function with control input and rate constraints. <i>Asian Journal of Control</i> , 2020, 22, 1268-1279.	1.9	12
65	Adaptive fault-tolerant vibration control of a wind turbine blade with actuator stuck. <i>International Journal of Control</i> , 2020, 93, 713-724.	1.2	11
66	Vibration control of flexible manipulator with unknown control direction. <i>International Journal of Control</i> , 2021, 94, 2690-2702.	1.2	11
67	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
68	Vibration control of nonlinear three-dimensional length-varying string with input quantization. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1835-1847.	1.5	11
69	Disturbance observer design and vibration control for a flexible aircraft wing. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 3760-3773.	1.1	10
70	Vibration control for a flexible satellite with adaptive actuator fault-tolerant and input quantization. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 451-460.	1.1	10
71	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
72	Event-triggered boundary quantization control for flexible manipulator based on partial differential equations dynamic model. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 2111-2123.	1.1	10

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73	Boundary and Distributed Control for a Nonlinear Three-dimensional Euler-Bernoulli Beam Based On Infinite Dimensional Disturbance Observer. <i>Asian Journal of Control</i> , 2016, 18, 2047-2063.	1.9	9
74	Adaptive fault-tolerant control for a joint flexible manipulator based on dynamic surface. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 4240-4253.	1.1	9
75	Dynamic modeling and vibration control of a three-dimensional flexible string with variable length and spatiotemporally varying parameters subject to input constraints. <i>Nonlinear Dynamics</i> , 2019, 95, 1395-1413.	2.7	9
76	Modeling and vibration control for a flexible pendulum inverted system based on a PDE observer. <i>International Journal of Control</i> , 2017, 90, 1736-1751.	1.2	8
77	Modeling and vibration control of aero two-blade propeller with input magnitude and rate saturations. <i>Aerospace Science and Technology</i> , 2019, 84, 412-430.	2.5	8
78	LMI-based boundary and distributed control design for a flexible string subject to disturbance. <i>International Journal of Control</i> , 2019, 92, 1959-1969.	1.2	8
79	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
80	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
81	Parameter identification for a quadrotor helicopter using PSO. , 2013, , .		7
82	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
83	Optimal trajectory control of flexible two-link manipulator based on PDE model. , 2012, , .		6
84	Observer-based stabilisation of a class of nonlinear systems in the presence of measurement delay. <i>International Journal of Control</i> , 2016, 89, 1180-1190.	1.2	6
85	Boundary Control for a Flexible Inverted Pendulum System Based on a PDE Model with Input Saturation. <i>Asian Journal of Control</i> , 2018, 20, 2026-2033.	1.9	6
86	Control of VTOL aircraft with position state constraints using the Barrier Lyapunov Function. <i>Asian Journal of Control</i> , 2020, 22, 1221-1229.	1.9	6
87	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
88	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.	1.1	5
89	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
90	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

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91	Nonlinear PDE observer design for a flexible two-link manipulator. , 2012, , .		4
92	Neural network based adaptive dynamic surface control for flight path angle. , 2012, , .		4
93	Bilateral coordination quantisation control for master-slave flexible manipulators based on PDE dynamic model. International Journal of Control, 0, , 1-14.	1.2	4
94	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
95	Deadzone compensation based boundary control of a flexible aerial refueling hose with output constraint. IFAC-PapersOnLine, 2017, 50, 645-650.	0.5	3
96	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
97	LMI-based robust adaptive neural network control for Euler-Bernoulli beam with uncertain parameters and disturbances. International Journal of Control, 2022, 95, 1-10.	1.2	3
98	Adaptive Neural Control of a Class of Uncertain State and Input-Delayed Systems With Input Magnitude and Rate Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6837-6851.	5.9	3
99	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
100	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.	2.3	3
101	Output constraints vibration control for a flexible aircraft wing with prescribed performance. International Journal of Systems Science, 2021, 52, 2241-2254.	3.7	2
102	Event-triggered boundary control of a flexible manipulator with uncertain end load. International Journal of Control, 2023, 96, 124-135.	1.2	2
103	Adaptive Sliding Mode Trajectory Tracking Control of Quadrotor UAV with Unknown Control Direction. Lecture Notes in Electrical Engineering, 2020, , 597-607.	0.3	2
104	Identification of underactuated manipulator based on genetic algorithm. , 2012, , .		1
105	Adaptive Fault-Tolerant Control of Flexible Mobile Manipulator. , 2019, , .		1
106	Fault-Tolerant Control for a Vibrating Nanobeam System. , 2019, , .		1
107	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.	1.5	1
108	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

#	ARTICLE	IF	CITATIONS
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, .	0.7	1
110	Quantization control for flexible manipulators with PDE model. <i>Asian Journal of Control</i> , 2022, 24, 3117-3132.	1.9	1
111	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
112	Boundary Stabilization for a Class of Hyperbolic PDEs with a Free End. , 2012, , .		0
113	Disturbance observer based boundary control of a flexible manipulator with input saturation. , 2017, , .		0
114	Trajectory optimization of a flexible manipulator using backstepping in the form of partial differential equations. , 2017, , .		0
115	Boundary Control for Flexible Manipulator with Exponential Convergence. , 2018, , 45-63.		0
116	Adaptive Fault-Tolerant Control for a Flexible Manipulator of Output-Constrained. , 2018, , .		0
117	Backstepping Control of Flexible Joint Manipulator Based on Hyperbolic Tangent Function with Control Input Constraint. , 2018, , .		0
118	PDE Control of Vehicle-mounted Flexible Link with Input Saturation and Disturbances. , 2020, , .		0
119	Infinite Dimensional Disturbance Observer for Flexible Manipulator. , 2018, , 125-134.		0
120	Sliding Mode Control on Coordination of Master-Slave Manipulator. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 242-250.	0.3	0