Shuang Zhang

List of Publications by Year
in descending order

42 papers	1,684 citations	516215 16 h-index	315357 38 g-index
42 all docs	42 docs citations	42 times ranked	1124 citing authors

#	Article	IF	Citations
1	Adaptive Control of a Flexible Crane System With the Boundary Output Constraint. IEEE Transactions on Industrial Electronics, 2014, 61, 4126-4133.	5.2	431
2	Control Design for Nonlinear Flexible Wings of a Robotic Aircraft. IEEE Transactions on Control Systems Technology, 2017, 25, 351-357.	3.2	264
3	Adaptive Neural Control for Robotic Manipulators With Output Constraints and Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5554-5564.	7.2	243
4	Robust adaptive control of a thruster assisted position mooring system. Automatica, 2014, 50, 1843-1851.	3.0	174
5	Active vibration control for a flexible string system with input backlash. IET Control Theory and Applications, 2016, 10, 800-805.	1.2	88
6	Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4091-4101.	5.9	58
7	Estimation of human impedance and motion intention for constrained humanâ€“robot interaction. Neurocomputing, 2020, 390, 268-279.	3.5	34
8	Neural networks-based fixed-time control for a robot with uncertainties and input deadzone. Neurocomputing, 2020, 390, 139-147.	3.5	32
9	Endâ€Point Regulation and Vibration Suppression of a Flexible Robotic Manipulator. Asian Journal of Control, 2017, 19, 245-254.	1.9	31
10	Approximate optimal control for an uncertain robot based on adaptive dynamic programming. Neurocomputing, 2021, 423, 308-317.	3.5	24
11	Trajectory Tracking Control for the Flexible Wings of a Micro Aerial Vehicle. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2431-2441.	5.9	22
12	Cooperative control of dual-arm robots in different human-robot collaborative tasks. Assembly Automation, 2019, 40, 95-104.	1.0	22
13	Vibration control for a flexible singleâ€link manipulator and its application. IET Control Theory and Applications, 2020, 14, 930-938.	1.2	22
14	Boundary Output Feedback Control for a Flexible Two-Link Manipulator System With High-Gain Observers. IEEE Transactions on Control Systems Technology, 2021, 29, 835-840.	3.2	21
15	Boundary Torque Control of a Flexible Two-Link Manipulator and Its Experimental Investigation. IEEE Transactions on Industrial Electronics, 2021, 68, 8708-8717.	5.2	18
16	Adaptive Neural Network Fixed-Time Control Design for Bilateral Teleoperation With Time Delay. IEEE Transactions on Cybernetics, 2022, 52, 9756-9769.	6.2	18
17	Vibration control of a flexible marine riser with joint angle constraint. Nonlinear Dynamics, 2017, 87, 617-632.	2.7	16
18	Adaptive neural control of unknown non-affine nonlinear systems with input deadzone and unknown disturbance. Nonlinear Dynamics, 2019, 95, 1283-1299.	2.7	16

#	Article	IF	Citations
19	Vibration Control for Flexible Manipulators With Event-Triggering Mechanism and Actuator Failures. IEEE Transactions on Cybernetics, 2022, 52, 7591-7601.	6.2	16
20	Neural Learning Control of a Robotic Manipulator with Finite-Time Convergence in the Presence of Unknown Backlash-Like Hysteresis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1916-1927.	5.9	15
21	Fuzzy Logic Control of an Uncertain Manipulator With Full-State Constraints and Disturbance Observer. IEEE Access, 2020, 8, 24284-24295.	2.6	12
22	Adaptive inverse backlash boundary vibration control design for an Eulerâ€“Bernoulli beam system. Journal of the Franklin Institute, 2020, 357, 3434-3450.	1.9	12
23	Neuro-learning-based adaptive control for state-constrained strict-feedback systems with unknown control direction. ISA Transactions, 2021, 112, 12-22.	3.1	11
24	Adaptive Compensation for Infinite Number of Actuator Faults and Time-Varying Delay of a Flexible Manipulator System. IEEE Transactions on Industrial Electronics, 2022, 69, 13141-13150.	5.2	9
25	Sliding Mode Control for an Inhomogeneous Heat Equation with Global Constraint. Asian Journal of Control, 2017, 19, 2116-2126.	1.9	8
26	Boundary control of a flexible crane system in twoâ€dimensional space. IET Control Theory and Applications, 2017, 11, 2187-2194.	1.2	8
27	Time-Varying Trajectory Tracking Boundary Control of a Flexible Rotation Beam Based on Servomechanism. IEEE Transactions on Industrial Electronics, 2022, 69, 9185-9195.	5.2	8
28	Adaptive Event-Triggered Boundary Control for a Flexible Manipulator With Input Quantization. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3706-3716.	3.7	7
29	Adaptive neural control of quadruped robots with input deadzone. Neurocomputing, 2019, 329, 486-494.	3.5	6
30	Cooperative Fault-Tolerant Control for a Mobile Dual Flexible Manipulator With Output Constraints. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2689-2698.	3.4	6
31	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.	1.6	6
32	Neural Network-Based Cooperative Trajectory Tracking Control for a Mobile Dual Flexible Manipulator. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6545-6556.	7.2	5
33	A Single Parameter-Based Adaptive Approach to Robotic Manipulators With Finite Time Convergence and Actuator Fault. IEEE Access, 2020, 8, 15123-15131.	2.6	4
34	Tracking control of a robotic system with deferred constraints and actuator faults. IET Control Theory and Applications, 2021, 15, 1257-1269.	1.2	4
35	Co-carrying an object by robot in cooperation with humans using visual and force sensing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200373.	1.6	4
36	Single Parameter Adaptive Control of Unknown Nonlinear Systems with Tracking Error Constraints. Complexity, 2018, 2018, 1-9.	0.9	3

#	Article	IF	Citations
37	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.	1.9	2
38	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.	5.9	2
39	Stabilization of an inhomogeneous heat equation subject to constraint. , 2015, , .		1
40	Fault-Tolerant Control against Performance Degradation of Actuators for a Robotic System with Guaranteed Prescribed Performance. , 2018, , .		1
41	Vibration suppression and angle tracking of a fire-rescue ladder. Nonlinear Dynamics, 2020, 100, 2365-2380.	2.7	0
42	Tracking Control of a Robotic System with Initial Constraint Violation and Actuator Faults. , 2020, , .		0