Menghua Zhang

List of Publications by Year
in descending order

27	826	471509	642732
27 papers	**826** citations	**17** h-index	**23** g-index
29 all docs	**29** docs citations	**29** times ranked	**349** citing authors

#	Article	IF	Citations
1	Adaptive tracking control for double-pendulum overhead cranes subject to tracking error limitation, parametric uncertainties and external disturbances. Mechanical Systems and Signal Processing, 2016, 76-77, 15-32.	8.0	106
2	A novel online motion planning method for double-pendulum overhead cranes. Nonlinear Dynamics, 2016, 85, 1079-1090.	5.2	87
3	An Enhanced Coupling PD with Sliding Mode Control Method for Underactuated Double-pendulum Overhead Crane Systems. International Journal of Control, Automation and Systems, 2019, 17, 1579-1588.	2.7	75
4	Adaptive integral sliding mode control with payload sway reduction for 4-DOF tower crane systems. Nonlinear Dynamics, 2020, 99, 2727-2741.	5.2	62
5	A Bioinspired Dynamics-Based Adaptive Fuzzy SMC Method for Half-Car Active Suspension Systems With Input Dead Zones and Saturations. IEEE Transactions on Cybernetics, 2021, 51, 1743-1755.	9.5	62
6	Model-independent PD-SMC method with payload swing suppression for 3D overhead crane systems. Mechanical Systems and Signal Processing, 2019, 129, 381-393.	8.0	61
7	Bioinspired Nonlinear Dynamics-Based Adaptive Neural Network Control for Vehicle Suspension Systems With Uncertain/Unknown Dynamics and Input Delay. IEEE Transactions on Industrial Electronics, 2021, 68, 12646-12656.	7.9	39
8	Modeling and energy-based sway reduction control for tower crane systems with double-pendulum and spherical-pendulum effects. Measurement and Control, 2020, 53, 141-150.	1.8	38
9	Adaptive Neural Network Tracking Control for Double-Pendulum Tower Crane Systems With Nonideal Inputs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2514-2530.	9.3	37
10	A partially saturated adaptive learning controller for overhead cranes with payload hoisting/lowering and unknown parameters. Nonlinear Dynamics, 2017, 89, 1779-1791.	5.2	34
11	Finite-time model-free trajectory tracking control for overhead cranes subject to model uncertainties, parameter variations and external disturbances. Transactions of the Institute of Measurement and Control, 2019, 41, 3516-3525.	1.7	29
12	Adaptive sway reduction for tower crane systems with varying cable lengths. Automation in Construction, 2020, 119, 103342.	9.8	28
13	Disturbance employment-based sliding mode control for 4-DOF tower crane systems. Mechanical Systems and Signal Processing, 2021, 161, 107946.	8.0	28
14	An Enhanced Coupling Nonlinear Tracking Controller for Underactuated 3D Overhead Crane Systems. Asian Journal of Control, 2018, 20, 1839-1854.	3.0	23
15	Model-Free Saturated PD-SMC Method for 4-DOF Tower Crane Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 10270-10280.	7.9	23
16	Finite-Time Trajectory Tracking Control for Overhead Crane Systems Subject to Unknown Disturbances. IEEE Access, 2019, 7, 55974-55982.	4.2	22
17	A novel energy-coupling-based control method for double-pendulum overhead cranes with initial control force constraint. Advances in Mechanical Engineering, 2018, 10, 168781401775221.	1.6	20
18	Switching logic-based saturated tracking control for active suspension systems based on disturbance observer and bioinspired X-dynamics. Mechanical Systems and Signal Processing, 2021, 155, 107611.	8.0	18

#	Article	IF	Citations
19	Energy-Saving Robust Saturated Control for Active Suspension Systems via Employing Beneficial Nonlinearity and Disturbance. IEEE Transactions on Cybernetics, 2022, 52, 10089-10100.	9.5	11
20	Saturated PD-SMC method for suspension systems by exploiting beneficial nonlinearities for improved vibration reduction and energy-saving performance. Mechanical Systems and Signal Processing, 2022, 179, 109376.	8.0	11
21	Information fusion control with time delay for smooth pursuit eye movement. Physiological Reports, 2016, 4, e12775.	1.7	4
22	Modeling and energy-based fuzzy controlling for underactuated overhead cranes with load transferring, lowering, and persistent external disturbances. Advances in Mechanical Engineering, 2017, 9, 168781401772008.	1.6	4
23	A switching control method for three-phase APF based on discrete switched affine model. , 2013, , .		2
24	Model independent PD-SMC method for bionic eye systems. , 2017, , .		0
25	Design of a Bionic Eye Experimental Platform. , 2018, , .		0
26	Saturated PD with sliding mode control method for 4-DOF tower crane systems. , 2021, , .		0
27	Adaptive Neural Network Control for Double-Pendulum Tower Crane Systems. Communications in Computer and Information Science, 2020, , 83-96.	0.5	0