

Menghua Zhang

List of Publications by Year in descending order

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docs citations

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times ranked

349
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Model-Free Saturated PD-SMC Method for 4-DOF Tower Crane Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 10270-10280.	7.9	23
4	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
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	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
7	Saturated PD with sliding mode control method for 4-DOF tower crane systems. , 2021, , .		0
8	Disturbance employment-based sliding mode control for 4-DOF tower crane systems. Mechanical Systems and Signal Processing, 2021, 161, 107946.	8.0	28
9	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
10	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
11	Adaptive sway reduction for tower crane systems with varying cable lengths. Automation in Construction, 2020, 119, 103342.	9.8	28
12	Adaptive integral sliding mode control with payload sway reduction for 4-DOF tower crane systems. Nonlinear Dynamics, 2020, 99, 2727-2741.	5.2	62
13	Adaptive Neural Network Control for Double-Pendulum Tower Crane Systems. Communications in Computer and Information Science, 2020, , 83-96.	0.5	0
14	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
15	Finite-Time Trajectory Tracking Control for Overhead Crane Systems Subject to Unknown Disturbances. IEEE Access, 2019, 7, 55974-55982.	4.2	22
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	An Enhanced Coupling Nonlinear Tracking Controller for Underactuated 3D Overhead Crane Systems. Asian Journal of Control, 2018, 20, 1839-1854.	3.0	23
20	Design of a Bionic Eye Experimental Platform. , 2018, , .		0
21	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
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	Model independent PD-SMC method for bionic eye systems. , 2017, , .		0
24	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
25	A novel online motion planning method for double-pendulum overhead cranes. Nonlinear Dynamics, 2016, 85, 1079-1090.	5.2	87
26	Information fusion control with time delay for smooth pursuit eye movement. Physiological Reports, 2016, 4, e12775.	1.7	4
27	A switching control method for three-phase APF based on discrete switched affine model. , 2013, , .		2