

Xin Hu

List of Publications by Year in descending order

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57
papers

1,644
citations

331259

21
h-index

288905

40
g-index

57
all docs

57
docs citations

57
times ranked

958
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite-time control design for course tracking of disturbed ships subject to input saturation. <i>International Journal of Control</i> , 2022, 95, 1409-1418.	1.2	3
2	Security correction control of stochastic cyber-physical systems subject to false data injection attacks with heterogeneous effects. <i>ISA Transactions</i> , 2022, 123, 1-13.	3.1	17
3	Robust Synchronization for Under-Actuated Vessels Based on Disturbance Observer. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 5470-5479.	4.7	30
4	Adaptive Fuzzy Trajectory Tracking Controller Design for Unmanned Surface Vessels. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 510-518.	0.3	0
5	Event-Triggered Adaptive Fuzzy Setpoint Regulation of Surface Vessels With Unmeasured Velocities Under Thruster Saturation Constraints. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 13463-13472.	4.7	23
6	Adaptive synchronization with disturbance rejection for under-actuated ships with disturbances under thruster saturation. <i>Ocean Engineering</i> , 2022, 245, 110355.	1.9	1
7	Disturbance observer based control for dynamically positioned ships with ocean environmental disturbances and actuator saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 4113-4128.	2.1	12
8	Adaptive saturation compensation for strict-feedback systems with unknown control coefficient and input saturation. <i>International Journal of Adaptive Control and Signal Processing</i> , 2021, 35, 1083-1098.	2.3	12
9	Sliding mode control unified with the uncertainty and disturbance estimator for dynamically positioned vessels subjected to uncertainties and unknown disturbances. <i>Applied Ocean Research</i> , 2021, 109, 102564.	1.8	19
10	Anti-disturbance control for dynamic positioning system of ships with disturbances. <i>Applied Mathematics and Computation</i> , 2021, 396, 125929.	1.4	14
11	Composite Disturbance Observer-Based Backstepping Tracking for Unmanned Surface Vessel. , 2021, , .		0
12	Adaptive synchronization of marine surface ships using disturbance rejection without leader velocity. <i>ISA Transactions</i> , 2021, 114, 72-81.	3.1	13
13	Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 193-202.	5.9	66
14	Disturbance observer-based elegant anti-disturbance saturation control for a class of stochastic systems. <i>International Journal of Control</i> , 2020, 93, 2859-2871.	1.2	18
15	Asymptotic Regulation of Dynamically Positioned Vessels with Unknown Dynamics and External Disturbances. <i>Journal of Navigation</i> , 2020, 73, 253-266.	1.0	6
16	Nonlinear disturbance observer-based control for a class of discrete-time stochastic systems with multiple heterogeneous disturbances. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 180-187.	1.1	5
17	Composite anti-disturbance control for stochastic systems with multiple heterogeneous disturbances and input saturation. <i>ISA Transactions</i> , 2020, 100, 436-445.	3.1	26
18	Adaptive disturbance rejection for course tracking of marine vessels under actuator constraint. <i>ISA Transactions</i> , 2020, 100, 82-91.	3.1	29

#	ARTICLE	IF	CITATIONS
19	Adaptive synchronization for surface vessels with disturbances and saturated thruster dynamics. <i>Ocean Engineering</i> , 2020, 216, 107920.	1.9	27
20	Distributed State Estimation for Dynamic Positioning Systems with Uncertain Disturbances and Transmission Time Delays. <i>Complexity</i> , 2020, 2020, 1-15.	0.9	5
21	Adaptive disturbance estimation and cancelation for ships under thruster saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 5004-5020.	2.1	35
22	Elegant anti-disturbance control for stochastic systems with multiple heterogeneous disturbances based on fuzzy logic systems. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 2611-2621.	1.1	4
23	Elegant antidisturbance fault-tolerant control for stochastic systems with multiple heterogeneous disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 2533-2549.	2.1	12
24	Adaptive nonlinear disturbance observer-based control for stochastic systems with multiple heterogeneous disturbances. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 2020-2030.	1.1	3
25	Intermediate variable observer based fault estimation and fault-tolerant control for nonlinear stochastic system with exogenous disturbance. <i>Journal of the Franklin Institute</i> , 2020, 357, 5380-5401.	1.9	11
26	Robust adaptive prescribed performance control for dynamic positioning of ships under unknown disturbances and input constraints. <i>Ocean Engineering</i> , 2020, 206, 107254.	1.9	53
27	Composite hierarchical anti-disturbance control for stochastic systems with multiple heterogeneous disturbances. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 4398-4408.	1.1	1
28	Adaptive disturbance observer-based control for stochastic systems with multiple heterogeneous disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 5533-5549.	2.1	35
29	Anti-disturbance control based on nonlinear disturbance observer for a class of stochastic systems. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 1665-1675.	1.1	17
30	Adaptive Fault Estimation and Fault-Tolerant Control for Nonlinear System With Unknown Nonlinear Dynamic. <i>IEEE Access</i> , 2019, 7, 136720-136728.	2.6	4
31	Robust adaptive regulation of dynamically positioned ships with unknown dynamics and unknown disturbances. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 545-556.	2.3	7
32	Sensor Fault Estimation for Lipschitz Nonlinear System with Disturbance. , 2019, , .		0
33	Dissipativity-based fault estimation for switched nonlinear systems with process and sensor faults. <i>IET Control Theory and Applications</i> , 2019, 13, 2983-2993.	1.2	7
34	Distributed fault detection for nonlinear multi-agent systems: an adjustable dimension observer design method. <i>IET Control Theory and Applications</i> , 2019, 13, 2407-2415.	1.2	14
35	Reduced-order observer based fault estimation and fault-tolerant control for switched stochastic systems with actuator and sensor faults. <i>ISA Transactions</i> , 2019, 88, 91-101.	3.1	73
36	Global asymptotic regulation control for MIMO mechanical systems with unknown model parameters and disturbances. <i>Nonlinear Dynamics</i> , 2019, 95, 2293-2305.	2.7	21

#	ARTICLE	IF	CITATIONS
37	Robust adaptive tracking control for a class of mechanical systems with unknown disturbances under actuator saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 1893-1908.	2.1	61
38	Dynamic positioning of ships with unknown parameters and disturbances. <i>Control Engineering Practice</i> , 2018, 76, 22-30.	3.2	78
39	Composite hierarchical antidisturbance control for a class of discrete-time stochastic systems. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 3292-3302.	2.1	38
40	Data-Mining-Based Fuzzy Control Design for Marine Dynamic Positioning System of Ships. , 2018, , .		1
41	Robust adaptive NN control of dynamically positioned vessels under input constraints. <i>Neurocomputing</i> , 2018, 318, 201-212.	3.5	27
42	Robust nonlinear control design for dynamic positioning of marine vessels with thruster system dynamics. <i>Nonlinear Dynamics</i> , 2018, 94, 365-376.	2.7	46
43	Composite fault-tolerant control with disturbance observer for stochastic systems with multiple disturbances. <i>Journal of the Franklin Institute</i> , 2018, 355, 4897-4915.	1.9	49
44	Synchronisation control for ships in underway replenishment based on dynamic surface control. <i>International Journal of Automation and Control</i> , 2018, 12, 220.	0.3	7
45	Robust Adaptive Control for Dynamic Positioning of Ships. <i>IEEE Journal of Oceanic Engineering</i> , 2017, 42, 826-835.	2.1	63
46	Disturbance Observer-Based Elegant Anti-Disturbance Control for Stochastic Systems with Multiple Disturbances. <i>Asian Journal of Control</i> , 2017, 19, 1966-1976.	1.9	5
47	Disturbance rejection for nonlinear systems with mismatched disturbances based on disturbance observer. <i>Journal of the Franklin Institute</i> , 2017, 354, 4404-4424.	1.9	44
48	Adaptive output feedback tracking control of surface vessels under input saturation. , 2017, , .		0
49	Robust dynamic positioning of ships with disturbances under input saturation. <i>Automatica</i> , 2016, 73, 207-214.	3.0	319
50	Adaptive Robust Output Feedback Control for a Marine Dynamic Positioning System Based on a High-Gain Observer. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 2775-2786.	7.2	166
51	Adaptive fuzzy controller design for dynamic positioning system of vessels. <i>Applied Ocean Research</i> , 2015, 53, 46-53.	1.8	88
52	Elegant anti-disturbance control for uncertain discrete-time stochastic systems. , 2015, , .		0
53	Sliding mode observer design for ship dynamic positioning systems. , 2014, , .		2
54	Design of neural network observer for ship dynamic positioning system. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
55	Saturating composite disturbance-observer-based control and H^∞ control for discrete time-delay systems with nonlinearity. International Journal of Control, Automation and Systems, 2009, 7, 691-701.	1.6	21
56	Composite disturbance-observer-based control and H^∞ control for complex systems. , 2008, , .		0
57	Composite disturbance-observer-based control and terminal sliding mode control for complex models. , 2008, , .		2