

Xiuyu Zhang

List of Publications by Year in descending order

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61
papers

2,746
citations

236925

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docs citations

61
times ranked

1627
citing authors

#	ARTICLE	IF	CITATIONS
1	An Analytical Generalized Prandtl-Ishlinskii Model Inversion for Hysteresis Compensation in Micropositioning Control. IEEE/ASME Transactions on Mechatronics, 2011, 16, 734-744.	5.8	355
2	Adaptive variable structure control of a class of nonlinear systems with unknown Prandtl-Ishlinskii hysteresis. IEEE Transactions on Automatic Control, 2005, 50, 2069-2074.	5.7	270
3	Adaptive Neural Control for a Class of Uncertain Nonlinear Systems in Pure-Feedback Form With Hysteresis Input. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 431-443.	5.0	187
4	Neural-Adaptive Control of Single-Master-Multiple-Slaves Teleoperation for Coordinated Multiple Mobile Manipulators With Time-Varying Communication Delays and Input Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1400-1413.	11.3	155
5	Robust adaptive control of a class of nonlinear systems including actuator hysteresis with Prandtl-Ishlinskii presentations. Automatica, 2006, 42, 859-867.	5.0	137
6	Adaptive Estimated Inverse Output-Feedback Quantized Control for Piezoelectric Positioning Stage. IEEE Transactions on Cybernetics, 2019, 49, 2106-2118.	9.5	125
7	Design of Implementable Adaptive Control for Micro/Nano Positioning System Driven by Piezoelectric Actuator. IEEE Transactions on Industrial Electronics, 2016, 63, 6471-6481.	7.9	103
8	Decentralized Adaptive Neural Approximated Inverse Control for a Class of Large-Scale Nonlinear Hysteretic Systems With Time Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2424-2437.	9.3	99
9	Compensation of Hysteresis Nonlinearity in Magnetostrictive Actuators With Inverse Multiplicative Structure for Preisach Model. IEEE Transactions on Automation Science and Engineering, 2014, 11, 613-619.	5.2	96
10	Adaptive Control for the Systems Preceded by Hysteresis. IEEE Transactions on Automatic Control, 2008, 53, 1019-1025.	5.7	95
11	Robust Adaptive Inverse Control of a Class of Nonlinear Systems With Prandtl-Ishlinskii Hysteresis Model. IEEE Transactions on Automatic Control, 2014, 59, 2170-2175.	5.7	94
12	Adaptive Control for Uncertain Continuous-Time Systems Using Implicit Inversion of Prandtl-Ishlinskii Hysteresis Representation. IEEE Transactions on Automatic Control, 2010, 55, 2357-2363.	5.7	90
13	Remaining Useful Life Prediction of Lithium-Ion Batteries Using Support Vector Regression Optimized by Artificial Bee Colony. IEEE Transactions on Vehicular Technology, 2019, 68, 9543-9553.	6.3	85
14	Adaptive Neural Control for a Class of Nonlinear Systems With Uncertain Hysteresis Inputs and Time-Varying State Delays. IEEE Transactions on Neural Networks, 2009, 20, 1148-1164.	4.2	83
15	Compound Adaptive Fuzzy Quantized Control for Quadrotor and Its Experimental Verification. IEEE Transactions on Cybernetics, 2021, 51, 1121-1133.	9.5	69
16	Adaptive Neural Network Dynamic Surface Control for a Class of Time-Delay Nonlinear Systems With Hysteresis Inputs and Dynamic Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2844-2860.	11.3	63
17	Implementable Adaptive Inverse Control of Hysteretic Systems via Output Feedback With Application to Piezoelectric Positioning Stages. IEEE Transactions on Industrial Electronics, 2016, 63, 5733-5743.	7.9	59
18	Output Feedback Adaptive Motion Control and Its Experimental Verification for Time-Delay Nonlinear Systems With Asymmetric Hysteresis. IEEE Transactions on Industrial Electronics, 2020, 67, 6824-6834.	7.9	53

#	ARTICLE	IF	CITATIONS
19	Modeling and inverse adaptive control of asymmetric hysteresis systems with applications to magnetostrictive actuator. <i>Control Engineering Practice</i> , 2014, 33, 148-160.	5.5	51
20	Distributed Adaptive Containment Control for a Class of Nonlinear Multiagent Systems With Input Quantization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 2419-2428.	11.3	42
21	Sliding Mode Tracking Control With Perturbation Estimation for Hysteresis Nonlinearity of Piezo-Actuated Stages. <i>IEEE Access</i> , 2018, 6, 30617-30629.	4.2	40
22	Adaptive Implicit Inverse Control for a Class of Discrete-Time Hysteretic Nonlinear Systems and Its Application. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2112-2122.	5.8	37
23	Output Feedback Adaptive Dynamic Surface Sliding-Mode Control for Quadrotor UAVs with Tracking Error Constraints. <i>Complexity</i> , 2020, 2020, 1-23.	1.6	37
24	Adaptive fuzzy dynamic surface sliding mode control of large-scale power systems with prescribe output tracking performance. <i>ISA Transactions</i> , 2020, 99, 305-321.	5.7	34
25	High-gain observer based decentralised output feedback control for interconnected nonlinear systems with unknown hysteresis input. <i>International Journal of Control</i> , 2013, 86, 1046-1059.	1.9	30
26	Adaptive Pseudo Inverse Control for a Class of Nonlinear Asymmetric and Saturated Nonlinear Hysteretic Systems. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 916-928.	13.1	28
27	Fuzzy Approximator Based Adaptive Dynamic Surface Control for Unknown Time Delay Nonlinear Systems With Input Asymmetric Hysteresis Nonlinearities. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 2218-2232.	9.3	24
28	Adaptive control for a class of nonlinear time-delay systems preceded by unknown hysteresis. <i>International Journal of Systems Science</i> , 2013, 44, 1468-1482.	5.5	22
29	Decentralized Adaptive Quantized Excitation Control for Multi-Machine Power Systems by Considering the Line-Transmission Delays. <i>IEEE Access</i> , 2018, 6, 61918-61933.	4.2	20
30	An Improved Flux Magnitude and Angle Control With LVRT Capability for DFIGs. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 3845-3853.	6.5	18
31	Adaptive Neural Digital Control of Hysteretic Systems With Implicit Inverse Compensator and Its Application on Magnetostrictive Actuator. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 667-680.	11.3	18
32	Decentralized robust adaptive neural dynamic surface control for multi-machine excitation systems with static var compensator. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 92-113.	4.1	17
33	Discrete-Time Adaptive Neural Tracking Control and Its Experiments for Quadrotor Unmanned Aerial Vehicle Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2023, 28, 1201-1212.	5.8	17
34	Development of a combined Prandtl Ishlinskiï€œPreisach model. <i>Sensors and Actuators A: Physical</i> , 2020, 304, 111797.	4.1	16
35	A neural power system stabilizer of DFIGs for power system stability support. <i>International Transactions on Electrical Energy Systems</i> , 2018, 28, e2547.	1.9	14
36	Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 5732-5741.	9.3	10

#	ARTICLE	IF	CITATIONS
37	Adaptive Fuzzy Dynamic Surface Control for Multi-Machine Power System Based on Composite Learning Method and Disturbance Observer. IEEE Access, 2020, 8, 163163-163175.	4.2	7
38	Approximate error considered fuzzy proportionalâ€“integral control of DFIG with regional pole placement for FRT improvement. IET Generation, Transmission and Distribution, 2018, 12, 335-346.	2.5	6
39	Adaptive Robust Dynamic Surface Integral Sliding Mode Control for Quadrotor UAVs under Parametric Uncertainties and External Disturbances. Complexity, 2020, 2020, 1-20.	1.6	6
40	Robust adaptive outputâ€“feedback control for a class of nonlinear systems with hysteresis compensation controller. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1636-1654.	4.1	5
41	All state constrained decentralized adaptive implicit inversion control for a class of large scale nonlinear hysteretic systems with time-delays. Information Sciences, 2022, 588, 52-66.	6.9	5
42	Grid Load Forecasting Based on Dual Attention BiGRU and DILATE Loss Function. IEEE Access, 2022, 10, 64569-64579.	4.2	5
43	Modeling and Adaptive Output Feedback Control of Butterfly-Like Hysteretic Nonlinear Systems With Creep and Their Applications. IEEE Transactions on Industrial Electronics, 2023, 70, 5182-5191.	7.9	5
44	Development of a butterfly hysteresis structure for dielectric elastomer-actuated systems. Smart Materials and Structures, 2021, 30, 125006.	3.5	4
45	Adaptive Discrete-Time Estimated Inverse Control for Piezoelectric Positioning Stage. IEEE Access, 2019, 7, 155120-155129.	4.2	3
46	Development of a Butterfly Fractional-Order Backlash-Like Hysteresis Model for Dielectric Elastomer Actuators. IEEE Transactions on Industrial Electronics, 2023, 70, 1794-1801.	7.9	3
47	Neural Networks Approximator Based Robust Adaptive Controller Design of Hypersonic Flight Vehicles Systems Coupled with Stochastic Disturbance and Dynamic Uncertainties. Mathematical Problems in Engineering, 2017, 2017, 1-10.	1.1	2
48	Neural Networks-based Robust Adaptive Dynamic Surface Sliding Mode Control of Flight Path Angle with Tracking Error Constraints. , 2019, , .		2
49	Modeling hysteresis for magnetostrictive actuators. , 2016, , .		0
50	Neural Adaptive Decentralized Coordinated Control with Fault-Tolerant Capability for DFIGs under Stochastic Disturbances. Mathematical Problems in Engineering, 2017, 2017, 1-16.	1.1	0
51	Neural networks approximator based adaptive prescribed performance tracking control for hypersonic flight vehicles systems. , 2017, , .		0
52	Decentralized Adaptive Dynamic Surface Control for Large-scale Multi-machine Power Systems with Unknown Time Delay. , 2018, , .		0
53	Uncertainty Considered Automatic Voltage Regulator of Synchronous Generator. , 2018, , .		0
54	Decentralized Adaptive Control for a Class of Large Scale Nonlinear Asymmetric Saturation Hysteretic Systems with All States Constrained. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	Adaptive Output Feedback Dynamic Surface Control for a Class of Quadrotor UAVs with External Disturbance. , 2021, , .		0
56	Development of a Modified Bouc-Wen Model for Butterfly Hysteresis Behaviors. , 2021, , .		0
57	Modeling of butterfly-shaped hysteresis in dielectric elastomer actuators. AIP Advances, 2021, 11, 125303.	1.3	0
58	Research on Optimization of User Side Benefit in Smart Grid Based on Game Theory. , 2022, , .		0
59	Event-Triggered Based Adaptive Dynamic Surface Control for a Class of Quadrotor UAVs. , 2021, , .		0
60	Adaptive Discrete Time Dynamic Surface Control for Aircraft Flight Path Angle with Unknown Disturbances. , 2021, , .		0
61	Adaptive Neural approximated Inverse Control for Heliostat in Tower Solar plant. , 2022, , .		0