Chaoxu Mu

List of Publications by Year in descending order

111 papers	4,075 citations	101384 36 h-index	118652 62 g-index
112 all docs	**112** docs citations	**112** times ranked	**2780** citing authors

#	Article	IF	Citations
1	EEG-Based Spatio–Temporal Convolutional Neural Network for Driver Fatigue Evaluation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2755-2763.	7.2	272
2	Air-Breathing Hypersonic Vehicle Tracking Control Based on Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 584-598.	7.2	249
3	Improved Sliding Mode Design for Load Frequency Control of Power System Integrated an Adaptive Learning Strategy. IEEE Transactions on Industrial Electronics, 2017, 64, 6742-6751.	5.2	172
4	Adaptive Speed Control of PMSM Drive System Based a New Sliding-Mode Reaching Law. IEEE Transactions on Power Electronics, 2020, 35, 12110-12121.	5.4	171
5	Improved Deadbeat Predictive Current Control Combined Sliding Mode Strategy for PMSM Drive System. IEEE Transactions on Vehicular Technology, 2018, 67, 251-263.	3.9	165
6	Improved Nonlinear Flux Observer-Based Second-Order SOIFO for PMSM Sensorless Control. IEEE Transactions on Power Electronics, 2019, 34, 565-579.	5.4	162
7	Data-Driven Tracking Control With Adaptive Dynamic Programming for a Class of Continuous-Time Nonlinear Systems. IEEE Transactions on Cybernetics, 2017, 47, 1460-1470.	6.2	147
8	Novel iterative neural dynamic programming for data-based approximate optimal control design. Automatica, 2017, 81, 240-252.	3.0	147
9	Learning-Based Robust Tracking Control of Quadrotor With Time-Varying and Coupling Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 259-273.	7.2	117
10	Event-Driven Adaptive Robust Control of Nonlinear Systems With Uncertainties Through NDP Strategy. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1358-1370.	5.9	111
11	On Mixed Data and Event Driven Design for Adaptive-Critic-Based Nonlinear H_{∞} Control. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 993-1005.	7.2	108
12	Dynamic Behavior of Terminal Sliding Mode Control. IEEE Transactions on Industrial Electronics, 2018, 65, 3480-3490.	5.2	90
13	Intelligent Critic Control With Disturbance Attenuation for Affine Dynamics Including an Application to a Microgrid System. IEEE Transactions on Industrial Electronics, 2017, 64, 4935-4944.	5.2	83
14	Adaptive-Critic-Based Robust Trajectory Tracking of Uncertain Dynamics and Its Application to a Spring–Mass–Damper System. IEEE Transactions on Industrial Electronics, 2018, 65, 654-663.	5.2	83
15	Novel Composite Sliding Mode Control for PMSM Drive System Based on Disturbance Observer. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	77
16	Neural Network Learning and Robust Stabilization of Nonlinear Systems With Dynamic Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1342-1351.	7.2	77
17	Hierarchically Adaptive Frequency Control for an EV-Integrated Smart Grid With Renewable Energy. IEEE Transactions on Industrial Informatics, 2018, 14, 4254-4263.	7.2	72
18	A Novel Multiplex Network-Based Sensor Information Fusion Model and Its Application to Industrial Multiphase Flow System. IEEE Transactions on Industrial Informatics, 2018, 14, 3982-3988.	7.2	70

#	Article	IF	Citations
19	Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. IEEE Transactions on Smart Grid, 2020, 11, 1748-1758.	6.2	66
20	On switching manifold design for terminal sliding mode control. Journal of the Franklin Institute, 2016, 353, 1553-1572.	1.9	64
21	Data-based robust optimal control of continuous-time affine nonlinear systems with matched uncertainties. Information Sciences, 2016, 366, 121-133.	4.0	58
22	Relative Wavelet Entropy Complex Network for Improving EEG-Based Fatigue Driving Classification. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2491-2497.	2.4	58
23	An Improved Third-Order Generalized Integral Flux Observer for Sensorless Drive of PMSMs. IEEE Transactions on Industrial Electronics, 2019, 66, 9149-9160.	5.2	54
24	A Real-Time Collision Prediction Mechanism With Deep Learning for Intelligent Transportation System. IEEE Transactions on Vehicular Technology, 2020, 69, 9497-9508.	3.9	53
25	Adaptive Neural-Network-Based Fault-Tolerant Control for a Flexible String With Composite Disturbance Observer and Input Constraints. IEEE Transactions on Cybernetics, 2022, 52, 12843-12853.	6.2	52
26	Q-learning solution for optimal consensus control of discrete-time multiagent systems using reinforcement learning. Journal of the Franklin Institute, 2019, 356, 6946-6967.	1.9	50
27	Dynamic Event-Triggering Neural Learning Control for Partially Unknown Nonlinear Systems. IEEE Transactions on Cybernetics, 2022, 52, 2200-2213.	6.2	50
28	Decentralized guaranteed cost control of interconnected systems with uncertainties: A learning-based optimal control strategy. Neurocomputing, 2016, 214, 297-306.	3.5	48
29	Fast sliding mode control on air-breathing hypersonic vehicles with transient response analysis. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2016, 230, 23-34.	0.7	48
30	ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4056-4067.	5.9	48
31	Event-based input-constrained nonlinear H_∞ state feedback with adaptive critic and neural implementation. Neurocomputing, 2016, 214, 848-856.	3.5	45
32	Iterative GDHP-based approximate optimal tracking control for a class of discrete-time nonlinear systems. Neurocomputing, 2016, 214, 775-784.	3.5	44
33	Cooperative Differential Game-Based Optimal Control and Its Application to Power Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 5169-5179.	7.2	43
34	Event-Based Constrained Robust Control of Affine Systems Incorporating an Adaptive Critic Mechanism. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1602-1612.	5.9	40
35	Learning Control Supported by Dynamic Event Communication Applying to Industrial Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 2325-2335.	7.2	39
36	Approximate-optimal control algorithm for constrained zero-sum differential games through event-triggering mechanism. Nonlinear Dynamics, 2019, 95, 2639-2657.	2.7	37

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37	Adaptive Learning and Sampled-Control for Nonlinear Game Systems Using Dynamic Event-Triggering Strategy. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4437-4450.	7.2	37
38	Neural-network-based adaptive guaranteed cost control of nonlinear dynamical systems with matched uncertainties. Neurocomputing, 2017, 245, 46-54.	3.5	35
39	Analysis for step−size optimisation on MPPT algorithm for photovoltaic systems. IET Power Electronics, 2017, 10, 1647-1654.	1.5	33
40	Adaptive tracking control for a class of continuous-time uncertain nonlinear systems using the approximate solution of HJB equation. Neurocomputing, 2017, 260, 432-442.	3.5	32
41	Robust adaptive critic control design with network-based event-triggered formulation. Nonlinear Dynamics, 2017, 90, 2023-2035.	2.7	31
42	Optimal Model-Free Output Synchronization of Heterogeneous Multiagent Systems Under Switching Topologies. IEEE Transactions on Industrial Electronics, 2020, 67, 10951-10964.	5.2	31
43	One Improved Sliding Mode DTC for Linear Induction Machines Based on Linear Metro. IEEE Transactions on Power Electronics, 2021, 36, 4560-4571.	5.4	30
44	New Hybrid Damping Strategy for Grid-Connected Photovoltaic Inverter With LCL Filter. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-8.	1.1	26
45	A Learning-Based Solution for an Adversarial Repeated Game in Cyber−Physical Power Systems. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4512-4523.	7.2	26
46	Hierarchical optimal control for input-affine nonlinear systems through the formulation of Stackelberg game. Information Sciences, 2020, 517, 1-17.	4.0	24
47	Observer-Based Load Frequency Control for Island Microgrid with Photovoltaic Power. International Journal of Photoenergy, 2017, 2017, 1-11.	1.4	23
48	Decentralized adaptive optimal stabilization of nonlinear systems with matched interconnections. Soft Computing, 2018, 22, 2705-2715.	2.1	23
49	Single−network ADP for near optimal control of continuous−time zero−sum games without using initial stabilising control laws. IET Control Theory and Applications, 2018, 12, 2449-2458.	1.2	23
50	Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6488-6502.	5.9	23
51	Improved Model Predictive Current Control Strategy-Based Rotor Flux for Linear Induction Machines. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	20
52	Adaptive Neural Network Control of an Uncertain 2-DOF Helicopter With Unknown Backlash-Like Hysteresis and Output Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10018-10027.	7.2	20
53	Hierarchical Control of Series-Connected String Converter-Based Islanded Electrical Power System. IEEE Transactions on Power Electronics, 2020, 35, 359-372.	5.4	19
54	Developing nonlinear adaptive optimal regulators through an improved neural learning mechanism. Science China Information Sciences, 2017, 60, 1.	2.7	18

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55	SMES-Based Damping Controller Design Using Fuzzy-GrHDP Considering Transmission Delay. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.1	17
56	Improved SOIFO-based rotor flux observer for PMSM sensorless control. , 2017, , .		17
57	Improved Negative Sequence Current Detection and Control Strategy for H-Bridge Three-Level Active Power Filter. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	16
58	Aperiodic adaptive control for neural-network-based nonzero-sum differential games: A novel event-triggering strategy. ISA Transactions, 2019, 92, 1-13.	3.1	16
59	A novel neural optimal control framework with nonlinear dynamics: Closed-loop stability and simulation verification. Neurocomputing, 2017, 266, 353-360.	3.5	15
60	Deep Actorâ€"Critic Learning-Based Robustness Enhancement of Internet of Things. IEEE Internet of Things Journal, 2020, 7, 6191-6200.	5.5	14
61	Learning-Based Cooperative Multiagent Formation Control With Collision Avoidance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7341-7352.	5.9	14
62	An Enhanced Distributed Voltage Regulation Scheme for Radial Feeder in Islanded Microgrid. Energies, 2021, 14, 6092.	1.6	13
63	Novel Linear Iteration Maximum Power Point Tracking Algorithm for Photovoltaic Power Generation. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-6.	1.1	12
64	An ADDHP-based Q-learning algorithm for optimal tracking control of linear discrete-time systems with unknown dynamics. Applied Soft Computing Journal, 2019, 82, 105593.	4.1	12
65	Data-Based H_∞ Control for the Constrained-Input Nonlinear Systems and its Applications in Chaotic Circuit Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 2791-2802.	3.5	12
66	Event-triggered design for discrete-time nonlinear systems with control constraints. Nonlinear Dynamics, 2021, 103, 2645-2657.	2.7	12
67	Cervical Cancer Cell Detection Based on Deep Convolutional Neural Network. , 2020, , .		11
68	Observer-based sliding mode frequency control for micro-grid with photovoltaic energy integration. , 2016, , .		10
69	Improved Continuous Fast Terminal Sliding Mode Control for Speed Regulation of Surface-Mounted Permanent Magnet Synchronous Motor. , 2018, , .		10
70	Hierarchical Multiagent Formation Control Scheme via Actor-Critic Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8764-8777.	7.2	10
71	A Scalable Two-Layer Blockchain System for Distributed Multicloud Storage in IIoT. IEEE Transactions on Industrial Informatics, 2022, 18, 9173-9183.	7.2	9
72	Multistep model predictive control for permanent magnet synchronous machine. , 2017, , .		8

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73	Optimal Output Feedback Control of Nonlinear Partially-Unknown Constrained-Input Systems Using Integral Reinforcement Learning. Neural Processing Letters, 2019, 50, 2963-2989.	2.0	8
74	Nonsingular terminal sliding mode control for speed regulation of permanent magnet synchronous motor with parameter uncertainties and torque change. , 2015, , .		7
75	Observer-Based Adaptive Control of Uncertain Nonlinear Systems Via Neural Networks. IEEE Access, 2018, 6, 42675-42686.	2.6	7
76	Approximately Optimal Control of Discrete-Time Nonlinear Switched Systems Using Globalized Dual Heuristic Programming. Neural Processing Letters, 2020, 52, 1089-1108.	2.0	7
77	Learning‐based control for discrete‐time constrained nonzero‐sum games. CAAI Transactions on Intelligence Technology, 2021, 6, 203-213.	3.4	7
78	Asynchronous learning for actor–critic neural networks and synchronous triggering for multiplayer system. ISA Transactions, 2022, 129, 295-308.	3.1	7
79	Adaptive composite frequency control of power systems using reinforcement learning. CAAI Transactions on Intelligence Technology, 2022, 7, 671-684.	3.4	7
80	Data-Based Feedback Relearning Control for Uncertain Nonlinear Systems With Actuator Faults. IEEE Transactions on Cybernetics, 2023, 53, 4361-4374.	6.2	7
81	Training-Free Deep Generative Networks for Compressed Sensing of Neural Action Potentials. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5190-5199.	7.2	6
82	Super-twisting sliding mode control based on Lyapunov analysis for the cursing flight of hypersonic vehicles. , 2013, , .		5
83	Robust Sliding Mode Speed Control with Adaptive Torque Observer for High Performance PMSM. , 2016, , .		5
84	Near-space aerospace vehicles attitude control based on adaptive dynamic programming and sliding mode control. , 2017, , .		5
85	An Optimal Control Scheme for Load Bus Voltage Regulation and Reactive Power-Sharing in an Islanded Microgrid. Energies, 2021, 14, 6490.	1.6	4
86	An Approximate Control Algorithm for Zero-Sum Differential Games Using Adaptive Critic Technique. , 2018, , .		4
87	Adaptive critic designs for solving event-based H_{∞} control problems. , 2017, , .		3
88	Nonsingular terminal sliding mode control for the speed regulation of permanent magnet synchronous motor with parameter uncertainties. , 2015, , .		2
89	Heuristic dynamic programming-based learning control for discrete-time disturbed multi-agent systems. Control Theory and Technology, 2021, 19, 339-353.	1.0	2
90	Event-Sampled Learning for Unknown Nonlinear Systems Related to Dynamic Triggering Method. , 2020, , .		2

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91	Neural network adaptive critic control with disturbance rejection. , 2017, , .		1
92	ADP-Based Supplementary Design for Load Frequency Control of Power Systems. Studies in Systems, Decision and Control, 2019, , 281-304.	0.8	1
93	Nearly Optimal Consensus Control of Discrete Time Multiagent Systems with Time Delays. , 2019, , .		1
94	Reactive Power Control of Autonomous Wind-Diesel Hybrid Power System via Online Actor-Critic Algorithm. , 2021, , .		1
95	A multiple model framework based on time series clustering for shale gas well pressure prediction. Journal of Natural Gas Science and Engineering, 2021, 95, 104135.	2.1	1
96	Data-based decentralized learning scheme for nonlinear systems with mismatched interconnections. Neurocomputing, 2022, 473, 127-137.	3.5	1
97	Impact of Impulsive load Scenario on Isolated Mini-Grid and its Neutralization with BESS. , 2021, , .		1
98	Cooperative Optimization Strategy for Distributed Energy Resource System using Multi-Agent Reinforcement Learning. , 2021, , .		1
99	New two-axis model based field oriented control strategy for single-sided linear induction motors. , 2015, , .		0
100	Position/force control of a holonomic-constrained mobile manipulator based on active disturbance rejection control. , 2017, , .		0
101	Observer-Based Online Adaptive Regulation for a Class of Uncertain Nonlinear Systems. Studies in Systems, Decision and Control, 2019, , 85-115.	0.8	0
102	Adaptive Tracking Control of Nonlinear Systems Subject to Matched Uncertainties. Studies in Systems, Decision and Control, 2019, , 117-144.	0.8	0
103	Intelligent Critic Control with Disturbance Attenuation for a Micro-Grid System. Studies in Systems, Decision and Control, 2019, , 257-280.	0.8	0
104	Robust Stabilization and Trajectory Tracking of General Uncertain Nonlinear Systems. Studies in Systems, Decision and Control, 2019, , 199-227.	0.8	0
105	Overview of Robust Adaptive Critic Control Design. Studies in Systems, Decision and Control, 2019, , 1-43.	0.8	0
106	An Improved Adaptive Optimal Regulation Framework with Robust Control Synthesis. Studies in Systems, Decision and Control, 2019, , 173-197.	0.8	0
107	Neural network-based adaptive decentralized learning control for interconnected systems with input constraints. Control Theory and Technology, 2021, 19, 392-404.	1.0	0
108	Decentralized Zero-sum Games for Nonlinear Systems Based on Off-policy Learning Scheme. , 2021, , .		0

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109	A Nearly Optimal Multi-agent Formation Control with Reinforcement Learning. , 2021, , .		0
110	Model-Free Optimal Consensus Control for Multi-agent Systems Based on DHP Algorithm. Neural Processing Letters, 2022, 54, 501-521.	2.0	0
111	Short-term Solar Power Forecasting via a Hybrid Model Combined with PSR and SD. , 2021, , .		0