

Hao Xu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

687
citations

686830

13
h-index

642321

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all docs

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60
times ranked

755
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Network-Based Finite-Horizon Optimal Control of Uncertain Affine Nonlinear Discrete-Time Systems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 486-499.	7.2	65
2	Q-Learning-Based Damping Control of Wide-Area Power Systems Under Cyber Uncertainties. IEEE Transactions on Smart Grid, 2018, 9, 6408-6418.	6.2	53
3	Finite-Horizon Near-Optimal Output Feedback Neural Network Control of Quantized Nonlinear Discrete-Time Systems With Input Constraint. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1776-1788.	7.2	47
4	A biologically-inspired distributed fault tolerant flocking control for multi-agent system in presence of uncertain dynamics and unknown disturbance. Engineering Applications of Artificial Intelligence, 2019, 79, 1-12.	4.3	36
5	Intelligent Control for Unmanned Aerial Systems with System Uncertainties and Disturbances Using Artificial Neural Network. Drones, 2018, 2, 30.	2.7	34
6	Distributed Control of Inverter-Interfaced Microgrids Based on Consensus Algorithm With Improved Transient Performance. IEEE Transactions on Smart Grid, 2019, 10, 1303-1312.	6.2	32
7	Brain Emotional Learning-Based Intelligent Controller for flocking of Multi-Agent Systems. , 2017, , .		29
8	Zero-Sum Game Based Cooperative Control for Onboard Pulsed Power Load Accommodation. IEEE Transactions on Industrial Informatics, 2020, 16, 238-247.	7.2	27
9	A Novel Transfer Learning-Based Intelligent Nonintrusive Load-Monitoring With Limited Measurements. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	27
10	Distributed Control of Inverter-Interfaced Microgrids With Bounded Transient Line Currents. IEEE Transactions on Industrial Informatics, 2018, 14, 2052-2061.	7.2	26
11	A neurobiologically-inspired intelligent trajectory tracking control for unmanned aircraft systems with uncertain system dynamics and disturbance. Transactions of the Institute of Measurement and Control, 2019, 41, 417-432.	1.1	26
12	Deep reinforcement learning based optimal defense for cyber-physical system in presence of unknown cyber-attack. , 2017, , .		24
13	Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. IEEE Transactions on Smart Grid, 2020, 11, 4626-4636.	6.2	24
14	Power Converters Based Advanced Experimental Platform for Integrated Study of Power and Controls. IEEE Transactions on Industrial Informatics, 2018, 14, 4940-4952.	7.2	19
15	A biologically-inspired reinforcement learning based intelligent distributed flocking control for Multi-Agent Systems in presence of uncertain system and dynamic environment. IFAC Journal of Systems and Control, 2020, 13, 100096.	1.1	18
16	Adaptive neural network based intelligent secondary control for microgrids. , 2018, , .		14
17	Implementation of Brain Emotional Learning-Based Intelligent Controller for Flocking of Multi-Agent Systems. IFAC-PapersOnLine, 2017, 50, 6934-6939.	0.5	12
18	Brain emotional learning-based intelligent tracking control for Unmanned Aircraft Systems with uncertain system dynamics and disturbance. , 2017, , .		12

#	ARTICLE	IF	CITATIONS
19	The Deformable Quad-Rotor Enabled and Wasp-Pedal-Carrying Inspired Aerial Gripper. , 2018, , .		12
20	Mean Field Game and Decentralized Intelligent Adaptive Pursuit Evasion Strategy for Massive Multi-Agent System under Uncertain Environment. , 2020, , .		12
21	Decentralized optimal large scale multi-player pursuit-evasion strategies: A mean field game approach with reinforcement learning. Neurocomputing, 2022, 484, 46-58.	3.5	12
22	MSNET-Blockchain: A New Framework for Securing Mobile Satellite Communication Network. , 2019, , .		11
23	Real-Time Single Object Detection on The UAV. , 2019, , .		9
24	A Novel Mean-Field-Game-Type Optimal Control for Very Large-Scale Multiagent Systems. IEEE Transactions on Cybernetics, 2022, 52, 5197-5208.	6.2	9
25	Underwater Acoustic Communication Channel Modeling Using Reservoir Computing. IEEE Access, 2022, 10, 56550-56563.	2.6	9
26	Event-triggered and self-triggered wide-area damping control designs under uncertainties. Transactions of the Institute of Measurement and Control, 2018, 40, 2259-2269.	1.1	8
27	Decentralized Adaptive Optimal Tracking Control for Massive Autonomous Vehicle Systems With Heterogeneous Dynamics: A Stackelberg Game. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5654-5663.	7.2	8
28	Decentralized Adaptive Optimal Tracking Control for Massive Multi-agent Systems: An Actor-Critic-Mass Algorithm. , 2019, , .		7
29	Intelligent Decentralized Dynamic Power Allocation in MANET at Tactical Edge based on Mean-Field Game Theory. , 2019, , .		7
30	Large-Scale Multiagent System Tracking Control Using Mean Field Games. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5602-5610.	7.2	6
31	Near optimal control and network co-design for uncertain networked control system with constraints. , 2017, , .		5
32	A biologically-inspired intelligent controller for distributed velocity control of multiple electro-hydraulic servo-systems. , 2017, , .		5
33	Distributed Consensus Control of Multiple UAVs in a Constrained Environment. , 2020, , .		5
34	Biologically inspired adaptive intelligent secondary control for MGs under cyber imperfections. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 341-352.	1.9	4
35	A biologically-inspired distributed resilient flocking control for multi-agent system with uncertain dynamics and unknown disturbances. , 2017, , .		3
36	Biologically-Inspired Intelligent Flocking Control for Networked Multi-UAS with Uncertain Network Imperfections. Drones, 2018, 2, 33.	2.7	3

#	ARTICLE	IF	CITATIONS
37	A Game Theoretic Based Biologically-Inspired Distributed Intelligent Flocking Control for Multi-UAV Systems with Network Imperfections. , 2018, , .		3
38	Adaptive Neural Network Based Intelligent Control for Unmanned Aerial Systems with System Uncertainties and Disturbances. , 2018, , .		3
39	Decentralized Adaptive Optimal Tracking Control for Massive Multi-Agent Systems with Input Constraint. , 2019, , .		3
40	Optimal self-triggered control and network co-design for networked multi-agent system via adaptive dynamic programming. , 2017, , .		2
41	Switching Deep Reinforcement Learning based Intelligent Online Decision Making for Autonomous Systems under Uncertain Environment. , 2018, , .		2
42	Brain Emotional Learning-Based Path Planning and Intelligent Control Co-Design for Unmanned Aerial Vehicle in Presence of System Uncertainties and Dynamic Environment. , 2018, , .		2
43	Decentralized Adaptive Optimal Control for Massive Multi-agent Systems Using Mean Field Game with Self-Organizing Neural Networks. , 2019, , .		2
44	Global Optimal Path Planning for Multi-agent Flocking: A Multi-Objective Optimization Approach with NSGA-III. , 2019, , .		2
45	Self-organizing probability neural network-based intelligent non-intrusive load monitoring with applications to low-cost residential measuring devices. Transactions of the Institute of Measurement and Control, 2021, 43, 635-645.	1.1	2
46	Finite horizon optimal control and communication co-design for uncertain networked control system with transmit power constraint. , 2016, , .		1
47	Event triggered distributed adaptive consensus control for high-order nonlinear multi-agent systems in presence of system uncertainties. , 2017, , .		1
48	A Biologically-Inspired Distributed Intelligent Flocking Control for Networked Multi-UAS with Uncertain Network Imperfections. , 2018, , .		1
49	Game Theoretic Based Intelligent Multi-User Millimeter-Wave MIMO Systems under Uncertain Environment and Unknown Interference. , 2019, , .		1
50	Deep Reinforcement Learning Based Intelligent Decision Making for Two-player Sequential Game with Uncertain Irrational Player. , 2019, , .		1
51	Biomimetic Optimal Tracking Control using Mean Field Games and Spiking Neural Networks. IFAC-PapersOnLine, 2020, 53, 8112-8117.	0.5	1
52	Low-computation dynamic generation of distributed connectivity control for varying sized multi-agent systems. , 2017, , .		0
53	Robust adaptive event-triggered consensus control for multiagent systems in presence of uncertain system dynamics. , 2017, , .		0
54	A Modified Direct Torque Control for Permanent Magnet Synchronous Machines (PMSMs). , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	A Neuron-Network-Based Optimal Control of Ultra-Capacitors with System Uncertainties. , 2019, , .		0
56	Multi-Robot Enhanced Intelligent Multi-User Millimeter-Wave MIMO Systems under Uncertain Environment. , 2019, , .		0
57	Reinforcement Learning-based Decentralized Optimal Control for Large-Scale Multi-agent System by Using Neural Networks and Discrete-time Mean Field Games. , 2021, , .		0
58	Optimal resource allocation in networked control systems. IET Cyber-Physical Systems: Theory and Applications, 2020, 5, 168-175.	1.9	0
59	Decentralized Optimal Multi-agent System Tracking Control Using Mean Field Games with Heterogeneous Agent. , 2021, , .		0
60	Decentralized Optimal Tracking Control for Large-scale Multi-Agent Systems under Complex Environment: A Constrained Mean Field Game with Reinforcement Learning Approach. , 2021, , .		0