

Xiaodong Yang

List of Publications by Year in descending order

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138
papers

7,326
citations

53751

45
h-index

58549

82
g-index

138
all docs

138
docs citations

138
times ranked

5034
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale Convolutional Neural Networks for Fault Diagnosis of Wind Turbine Gearbox. IEEE Transactions on Industrial Electronics, 2019, 66, 3196-3207.	5.2	569
2	Model-Free Real-Time EV Charging Scheduling Based on Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2019, 10, 5246-5257.	6.2	300
3	Adaptive Critic Nonlinear Robust Control: A Survey. IEEE Transactions on Cybernetics, 2017, 47, 3429-3451.	6.2	287
4	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
5	A three-network architecture for on-line learning and optimization based on adaptive dynamic programming. Neurocomputing, 2012, 78, 3-13.	3.5	210
6	An Event-Triggered ADP Control Approach for Continuous-Time System With Unknown Internal States. IEEE Transactions on Cybernetics, 2017, 47, 683-694.	6.2	205
7	Stochastic Optimization of Economic Dispatch for Microgrid Based on Approximate Dynamic Programming. IEEE Transactions on Smart Grid, 2019, 10, 2440-2452.	6.2	194
8	Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2020, 11, 2427-2439.	6.2	191
9	Formation Learning Control of Multiple Autonomous Underwater Vehicles With Heterogeneous Nonlinear Uncertain Dynamics. IEEE Transactions on Cybernetics, 2018, 48, 2920-2934.	6.2	182
10	Event-Triggered Optimal Control for Partially Unknown Constrained-Input Systems via Adaptive Dynamic Programming. IEEE Transactions on Industrial Electronics, 2017, 64, 4101-4109.	5.2	170
11	Fixed/Preassigned-Time Synchronization of Complex Networks via Improving Fixed-Time Stability. IEEE Transactions on Cybernetics, 2021, 51, 2882-2892.	6.2	164
12	Power System Stability Control for a Wind Farm Based on Adaptive Dynamic Programming. IEEE Transactions on Smart Grid, 2015, 6, 166-177.	6.2	153
13	Adaptive Event-Triggered Control Based on Heuristic Dynamic Programming for Nonlinear Discrete-Time Systems. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1594-1605.	7.2	153
14	Novel iterative neural dynamic programming for data-based approximate optimal control design. Automatica, 2017, 81, 240-252.	3.0	147
15	Global Synchronization of Fuzzy Memristive Neural Networks With Discrete and Distributed Delays. IEEE Transactions on Fuzzy Systems, 2020, 28, 2022-2034.	6.5	128
16	Dimensionality Reduction of Hyperspectral Imagery Based on Spatial-Spectral Manifold Learning. IEEE Transactions on Cybernetics, 2020, 50, 2604-2616.	6.2	124
17	Adaptive Critic Designs for Event-Triggered Robust Control of Nonlinear Systems With Unknown Dynamics. IEEE Transactions on Cybernetics, 2019, 49, 2255-2267.	6.2	118
18	Real-Time Demand Side Management for a Microgrid Considering Uncertainties. IEEE Transactions on Smart Grid, 2019, 10, 3401-3414.	6.2	115

#	ARTICLE	IF	CITATIONS
19	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
20	Real-Time Residential Demand Response. IEEE Transactions on Smart Grid, 2020, 11, 4144-4154.	6.2	106
21	Optimal Real-Time Operation Strategy for Microgrid: An ADP-Based Stochastic Nonlinear Optimization Approach. IEEE Transactions on Sustainable Energy, 2019, 10, 931-942.	5.9	104
22	Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3713-3725.	5.9	102
23	Distributed Cooperative Control and Stability Analysis of Multiple DC Electric Springs in a DC Microgrid. IEEE Transactions on Industrial Electronics, 2018, 65, 5611-5622.	5.2	101
24	Goal Representation Heuristic Dynamic Programming on Maze Navigation. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 2038-2050.	7.2	94
25	Reactive power control of grid-connected wind farm based on adaptive dynamic programming. Neurocomputing, 2014, 125, 125-133.	3.5	83
26	Team-Triggered Practical Fixed-Time Consensus of Double-Integrator Agents With Uncertain Disturbance. IEEE Transactions on Cybernetics, 2021, 51, 3263-3272.	6.2	83
27	Resilient Wide-Area Damping Control Using GrHDP to Tolerate Communication Failures. IEEE Transactions on Smart Grid, 2019, 10, 2547-2557.	6.2	82
28	Data-Adaptive Robust Optimization Method for the Economic Dispatch of Active Distribution Networks. IEEE Transactions on Smart Grid, 2019, 10, 3791-3800.	6.2	74
29	Cooperative Deterministic Learning-Based Formation Control for a Group of Nonlinear Uncertain Mechanical Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 319-333.	7.2	73
30	Improving the Critic Learning for Event-Based Nonlinear H_{∞} Control Design. IEEE Transactions on Cybernetics, 2017, 47, 3417-3428.	6.2	72
31	Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 58-72.	5.9	72
32	Event-Triggered Optimal Neuro-Controller Design With Reinforcement Learning for Unknown Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1866-1878.	5.9	71
33	Learning to Navigate Through Complex Dynamic Environment With Modular Deep Reinforcement Learning. IEEE Transactions on Games, 2018, 10, 400-412.	1.2	70
34	Parameterized Batch Reinforcement Learning for Longitudinal Control of Autonomous Land Vehicles. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 730-741.	5.9	69
35	Continuous-Time Distributed Policy Iteration for Multicontroller Nonlinear Systems. IEEE Transactions on Cybernetics, 2021, 51, 2372-2383.	6.2	68
36	Self-learning robust optimal control for continuous-time nonlinear systems with mismatched disturbances. Neural Networks, 2018, 99, 19-30.	3.3	66

#	ARTICLE	IF	CITATIONS
37	Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. IEEE Transactions on Smart Grid, 2020, 11, 1748-1758.	6.2	66
38	Adaptive Dynamic Programming for Robust Regulation and Its Application to Power Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 5722-5732.	5.2	63
39	Data-Driven Finite-Horizon Approximate Optimal Control for Discrete-Time Nonlinear Systems Using Iterative HDP Approach. IEEE Transactions on Cybernetics, 2018, 48, 2948-2961.	6.2	62
40	Decentralized Event-Triggered Control for a Class of Nonlinear-Interconnected Systems Using Reinforcement Learning. IEEE Transactions on Cybernetics, 2021, 51, 635-648.	6.2	62
41	ANGEL: An Intelligent Digital Twin Framework for Microgrid Security. , 2019, , .		60
42	Adaptive wide-area power oscillation damper design for photovoltaic plant considering delay compensation. IET Generation, Transmission and Distribution, 2017, 11, 4511-4519.	1.4	58
43	Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4043-4055.	5.9	58
44	Interactive Energy Management for Enhancing Power Balances in Multi-Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 6055-6069.	6.2	55
45	Intelligent load frequency controller using GrADP for island smart grid with electric vehicles and renewable resources. Neurocomputing, 2015, 170, 406-416.	3.5	53
46	Online Scheduling of a Residential Microgrid via Monte-Carlo Tree Search and a Learned Model. IEEE Transactions on Smart Grid, 2021, 12, 1073-1087.	6.2	50
47	Advanced Secondary Voltage Recovery Control for Multiple HESSs in a Droop-Controlled DC Microgrid. IEEE Transactions on Smart Grid, 2019, 10, 3828-3839.	6.2	48
48	Event-Driven H_∞ -Constrained Control Using Adaptive Critic Learning. IEEE Transactions on Cybernetics, 2021, 51, 4860-4872.	6.2	48
49	Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2501-2511.	5.9	47
50	Approximate Dynamic Programming for Nonlinear-Constrained Optimizations. IEEE Transactions on Cybernetics, 2021, 51, 2419-2432.	6.2	46
51	Optimal energy flow control strategy for a residential energy local network combined with demand-side management and real-time pricing. Energy and Buildings, 2017, 150, 177-188.	3.1	45
52	Data-Driven Distributed Output Consensus Control for Partially Observable Multiagent Systems. IEEE Transactions on Cybernetics, 2019, 49, 848-858.	6.2	45
53	Entropy-based Sampling Approaches for Multi-Class Imbalanced Problems. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2159-2170.	4.0	45
54	Consensus-Based Distributed Control for Photovoltaic-Battery Units in a DC Microgrid. IEEE Transactions on Industrial Electronics, 2019, 66, 7778-7787.	5.2	44

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55	A Finger Vein Image-Based Personal Identification System With Self-Adaptive Illuminance Control. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 294-304.	2.4	42
56	Gr-GDHP: A New Architecture for Globalized Dual Heuristic Dynamic Programming. IEEE Transactions on Cybernetics, 2017, 47, 3318-3330.	6.2	41
57	GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2362-2374.	5.9	41
58	Adaptive dynamic programming for robust neural control of unknown continuous-time nonlinear systems. IET Control Theory and Applications, 2017, 11, 2307-2316.	1.2	40
59	Event-triggered differentially private average consensus for multi-agent network. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 75-83.	8.5	40
60	Global Stabilization of Fuzzy Memristor-Based Reaction-Diffusion Neural Networks. IEEE Transactions on Cybernetics, 2020, 50, 4658-4669.	6.2	40
61	Real-Time Coordinated Scheduling for ADNs With Soft Open Points and Charging Stations. IEEE Transactions on Power Systems, 2021, 36, 5486-5499.	4.6	38
62	Flexibility Provisions in Active Distribution Networks With Uncertainties. IEEE Transactions on Sustainable Energy, 2020, , 1-1.	5.9	37
63	Intermittent Stabilization of Fuzzy Competitive Neural Networks With Reaction Diffusions. IEEE Transactions on Fuzzy Systems, 2021, 29, 2361-2372.	6.5	34
64	Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1267-1277.	5.9	34
65	Edge-Based Adaptive Distributed Method for Synchronization of Intermittently Coupled Spatiotemporal Networks. IEEE Transactions on Automatic Control, 2022, 67, 2597-2604.	3.6	33
66	Neuro-Optimal Tracking Control for Continuous Stirred Tank Reactor With Input Constraints. IEEE Transactions on Industrial Informatics, 2019, 15, 4516-4524.	7.2	32
67	Learning Human-Robot Interaction for Robot-Assisted Pedestrian Flow Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 797-813.	5.9	30
68	Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3959-3971.	5.9	30
69	Smart Grid Anomaly Detection using a Deep Learning Digital Twin. , 2021, , .		30
70	Learning to Operate Distribution Networks With Safe Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2022, 13, 1860-1872.	6.2	30
71	Adaptive critic designs for optimal control of uncertain nonlinear systems with unmatched interconnections. Neural Networks, 2018, 105, 142-153.	3.3	29
72	A Virtual-Real Interaction Approach to Object Instance Segmentation in Traffic Scenes. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 863-875.	4.7	28

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73	Bipartite Graph based Multi-view Clustering. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	26
74	A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. IEEE Transactions on Smart Grid, 2020, 11, 3716-3725.	6.2	26
75	Feasibility Identification and Computational Efficiency Improvement for Two-Stage RUC With Multiple Wind Farms. IEEE Transactions on Sustainable Energy, 2020, 11, 1669-1678.	5.9	25
76	CGAN-MBL for Reliability Assessment With Imbalanced Transmission Gear Data. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3173-3183.	2.4	24
77	An Event-Driven ADR Approach for Residential Energy Resources in Microgrids With Uncertainties. IEEE Transactions on Industrial Electronics, 2019, 66, 5275-5288.	5.2	24
78	Dual Alignment for Partial Domain Adaptation. IEEE Transactions on Cybernetics, 2021, 51, 3404-3416.	6.2	22
79	Model-Independent Formation Tracking of Multiple Euler-Lagrange Systems via Bounded Inputs. IEEE Transactions on Cybernetics, 2021, 51, 2813-2823.	6.2	22
80	A Generative Model for Sparse Hyperparameter Determination. IEEE Transactions on Big Data, 2018, 4, 2-10.	4.4	21
81	Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-13.	5.9	21
82	Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-13.	5.9	20
83	Local Linear Spatial Spectral Probabilistic Distribution for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1259-1272.	2.7	20
84	Unified Residue Method for Design of Compact Wide-area Damping Controller Based on Power System Stabilizer. Journal of Modern Power Systems and Clean Energy, 2020, 8, 367-376.	3.3	19
85	A Cascaded Distributed Control Framework in DC Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 205-214.	6.2	17
86	Small Fault Detection of Discrete-Time Nonlinear Uncertain Systems. IEEE Transactions on Cybernetics, 2021, 51, 750-764.	6.2	17
87	Cooperative Adaptive Containment Control With Parameter Convergence via Cooperative Finite-Time Excitation. IEEE Transactions on Automatic Control, 2021, 66, 5612-5618.	3.6	17
88	On-Line Energy Management of Microgrid via Parametric Cost Function Approximation. IEEE Transactions on Power Systems, 2019, 34, 3300-3302.	4.6	16
89	Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1779-1793.	5.9	15
90	Adaptive Observer-Based Output Regulation of Multiagent Systems With Communication Constraints. IEEE Transactions on Cybernetics, 2021, 51, 5259-5268.	6.2	15

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91	Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4520-4531.	5.9	15
92	Synthetic-to-Real Domain Adaptation for Object Instance Segmentation. , 2019, , .		14
93	A Novel Framework for Gear Safety Factor Prediction. IEEE Transactions on Industrial Informatics, 2019, 15, 1998-2007.	7.2	12
94	Frequency Restoration and Oscillation Damping of Distributed VSGs in Microgrid With Low Bandwidth Communication. IEEE Transactions on Smart Grid, 2020, , 1-1.	6.2	12
95	Local Domain Adaptation for Cross-Domain Activity Recognition. IEEE Transactions on Human-Machine Systems, 2021, 51, 12-21.	2.5	12
96	Incomplete Multi-view Clustering with Joint Partition and Graph Learning. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	11
97	Event-triggered online energy flow control strategy for regional integrated energy system using Lyapunov optimization. International Journal of Electrical Power and Energy Systems, 2021, 125, 106451.	3.3	10
98	Weakly supervised object localization with deep convolutional neural network based on spatial pyramid saliency map. , 2017, , .		9
99	Enhancing Utilization of PV Energy in Building Microgrids via Autonomous Demand Response. IEEE Access, 2021, 9, 23554-23564.	2.6	9
100	AnswerNet: Learning to Answer Questions. IEEE Transactions on Big Data, 2019, 5, 540-549.	4.4	8
101	Impact analysis of cyber system in microgrids: Perspective from economy and reliability. International Journal of Electrical Power and Energy Systems, 2022, 135, 107422.	3.3	8
102	Multi-level PV inverter with photovoltaic groups independent MPPT control. , 2014, , .		7
103	Optimal Feedback Control of Pedestrian Flow in Heterogeneous Corridors. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1097-1108.	3.4	7
104	Shunt Active Power Filter Based on Proportional Integral and Multi Vector Resonant Controllers for Compensating Nonlinear Loads. Journal of Electrical and Computer Engineering, 2018, 2018, 1-11.	0.6	6
105	Lyapunov Optimization Based Online Energy Flow Control for Multi-energy Community Microgrids. , 2019, , .		6
106	Adversarial Domain Adaptation via Category Transfer. , 2019, , .		6
107	Enabling Online Scheduling for Multi-Microgrid Systems: An Event-Triggered Approach. IEEE Transactions on Smart Grid, 2021, 12, 1836-1852.	6.2	6
108	Modeling of low voltage power network used as high frequency communication channel based on experimental results in china. , 0, , .		5

#	ARTICLE	IF	CITATIONS
109	Deep Transfer Cooperative Sensing in Cognitive Radio. IEEE Wireless Communications Letters, 2021, 10, 1354-1358.	3.2	5
110	Optimal charging and discharging dispatching strategy for electric vehicle based on customer's benefit. , 2016, , .		4
111	Deep Reinforcement Learning for Economic Energy Scheduling in Data Center Microgrids. , 2019, , .		4
112	Overall Adaptive Controller Design of PMSG Under Whole Wind Speed Range: A Perturbation Compensation Based Approach. Processes, 2019, 7, 732.	1.3	4
113	A Fault-Tolerant Location Approach for Transient Voltage Disturbance Source Based on Information Fusion. Energies, 2016, 9, 1092.	1.6	3
114	Coordinated optimal control strategy for multi-energy microgrids considering P2G technology and demand response. , 2017, , .		3
115	Modeling and Analysis of Communication Network in Smart Microgrids. , 2018, , .		3
116	Imbalanced Learning for Cooperative Spectrum Sensing in Cognitive Radio Networks. , 2019, , .		3
117	Distributed Volt-VAR Optimization based on Multi-Agent Deep Reinforcement Learning. , 2021, , .		3
118	Sampled-Data Consensus for Networked Euler-Lagrange Systems with Differentiable Scaling Functions. IEEE Access, 2021, , 1-1.	2.6	3
119	Online Microgrid Energy Management Based on Safe Deep Reinforcement Learning. , 2021, , .		3
120	Enhancement of isolated distributed generation system power quality using DSTATCOM. , 2017, , .		2
121	Evolutionary Search for Energy-Efficient Distributed Cooperative Spectrum Sensing. , 2020, , .		2
122	Bottleneck Generator Identification and the Corresponding N-1 Frequency Security Constrained Intraday Generator Dispatch. IEEE Transactions on Power Systems, 2023, 38, 739-752.	4.6	2
123	Analysis method on parameter identifiability for excitation system model of generator. , 2014, , .		1
124	Enhancing the damping ability of wide-area power system by employing time delay. , 2017, , .		1
125	Online energy flow control for residential microgrids with URGs: An event-driven approach. , 2017, , .		1
126	Outage Management Strategy for Multi-Microgrids Considering Uncertain Islanding Duration. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
127	A Decentralized Energy Flow Control Framework for Regional Energy Internet. Complexity, 2019, 2019, 1-10.	0.9	1
128	Dynamic Power Sharing and Autonomous Voltage Regulation in Islanded DC Microgrids. , 2019, , .		1
129	Editorial: Staying Healthy and Strong Together. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2-3.	7.2	1
130	Risk-averse Coordinated Economic Dispatching and Voltage Regulation in ADNs With On-site Renewables and Soft Open Points. , 2021, , .		1
131	Algorithm research and application for locating power-quality event source. , 2008, , .		0
132	The research of optimal selection of interruptible load based on voltage quality and economy. , 2009, , .		0
133	A universal power loss estimator for three level IGCT converter. , 2014, , .		0
134	Editorial: Another Successful Year and Looking Forward to 2020. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2-3.	7.2	0
135	An Online Energy Flow Control Strategy for Regional Integrated Energy System. , 2020, , .		0
136	Adversarial Attack for Deep Reinforcement Learning Based Demand Response. , 2021, , .		0
137	Blockchain Checksum for Establishing Secure Communications for Digital Twin Technology. , 2021, , .		0
138	Multi-view Semi-Supervised Learning for Cooperative Spectrum Sensing. , 2021, , .		0