

# Xiaodong Yang

## List of Publications by Citations

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123  
papers

3,994  
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36  
h-index

60  
g-index

138  
ext. papers

5,543  
ext. citations

7  
avg, IF

6.85  
L-index

#	Paper	IF	Citations
123	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 3196-3207	8.9	291
122	Air-Breathing Hypersonic Vehicle Tracking Control Based on Adaptive Dynamic Programming. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2017</b> , 28, 584-598	10.3	175
121	A three-network architecture for on-line learning and optimization based on adaptive dynamic programming. <i>Neurocomputing</i> , <b>2012</b> , 78, 3-13	5.4	169
120	Adaptive Critic Nonlinear Robust Control: A Survey. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3429-3451	10.2	166
119	An Event-Triggered ADP Control Approach for Continuous-Time System With Unknown Internal States. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 683-694	10.2	148
118	Model-Free Real-Time EV Charging Scheduling Based on Deep Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 5246-5257	10.7	144
117	Power System Stability Control for a Wind Farm Based on Adaptive Dynamic Programming. <i>IEEE Transactions on Smart Grid</i> , <b>2015</b> , 6, 166-177	10.7	117
116	Event-Triggered Optimal Control for Partially Unknown Constrained-Input Systems via Adaptive Dynamic Programming. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 4101-4109	8.9	116
115	Stochastic Optimization of Economic Dispatch for Microgrid Based on Approximate Dynamic Programming. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 2440-2452	10.7	105
114	Formation Learning Control of Multiple Autonomous Underwater Vehicles With Heterogeneous Nonlinear Uncertain Dynamics. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 2920-2934	10.2	100
113	Adaptive Event-Triggered Control Based on Heuristic Dynamic Programming for Nonlinear Discrete-Time Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2017</b> , 28, 1594-1605	10.3	98
112	Novel iterative neural dynamic programming for data-based approximate optimal control design. <i>Automatica</i> , <b>2017</b> , 81, 240-252	5.7	95
111	Dimensionality Reduction of Hyperspectral Imagery Based on Spatial-Spectral Manifold Learning. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 2604-2616	10.2	78
110	Event-Driven Adaptive Robust Control of Nonlinear Systems With Uncertainties Through NDP Strategy. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1358-1370	7.3	75
109	Real-Time Demand Side Management for a Microgrid Considering Uncertainties. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 1-1	10.7	75
108	Goal representation heuristic dynamic programming on maze navigation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2013</b> , 24, 2038-50	10.3	75
107	Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 2427-2439	10.7	72

106	Adaptive Critic Designs for Event-Triggered Robust Control of Nonlinear Systems With Unknown Dynamics. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 2255-2267	10.2	67
105	Distributed Cooperative Control and Stability Analysis of Multiple DC Electric Springs in a DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 5611-5622	8.9	63
104	Optimal Real-Time Operation Strategy for Microgrid: An ADP-Based Stochastic Nonlinear Optimization Approach. <i>IEEE Transactions on Sustainable Energy</i> , <b>2019</b> , 10, 931-942	8.2	62
103	Reactive power control of grid-connected wind farm based on adaptive dynamic programming. <i>Neurocomputing</i> , <b>2014</b> , 125, 125-133	5.4	61
102	Resilient Wide-Area Damping Control Using GrHDP to Tolerate Communication Failures. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 2547-2557	10.7	57
101	Adaptive wide-area power oscillation damper design for photovoltaic plant considering delay compensation. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 4511-4519	2.5	52
100	Global Synchronization of Fuzzy Memristive Neural Networks With Discrete and Distributed Delays. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 28, 2022-2034	8.3	47
99	Parameterized Batch Reinforcement Learning for Longitudinal Control of Autonomous Land Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 730-741	7.3	46
98	Improving the Critic Learning for Event-Based Nonlinear $H_{\infty}$ Control Design. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3417-3428	10.2	45
97	Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 58-72	7.3	45
96	Fixed/Preassigned-Time Synchronization of Complex Networks via Improving Fixed-Time Stability. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2882-2892	10.2	45
95	Self-learning robust optimal control for continuous-time nonlinear systems with mismatched disturbances. <i>Neural Networks</i> , <b>2018</b> , 99, 19-30	9.1	42
94	Adaptive Dynamic Programming for Robust Regulation and Its Application to Power Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 5722-5732	8.9	42
93	Real-Time Residential Demand Response. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4144-4154	10.7	41
92	Intelligent load frequency controller using GrADP for island smart grid with electric vehicles and renewable resources. <i>Neurocomputing</i> , <b>2015</b> , 170, 406-416	5.4	40
91	Data-Adaptive Robust Optimization Method for the Economic Dispatch of Active Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 3791-3800	10.7	40
90	Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 3713-3725	7.3	39
89	Event-Triggered Optimal Neuro-Controller Design With Reinforcement Learning for Unknown Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 1866-1878	7.3	38

88	Data-Driven Finite-Horizon Approximate Optimal Control for Discrete-Time Nonlinear Systems Using Iterative HDP Approach. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 2948-2961	10.2	36
87	Team-Triggered Practical Fixed-Time Consensus of Double-Integrator Agents With Uncertain Disturbance. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 3263-3272	10.2	36
86	Optimal energy flow control strategy for a residential energy local network combined with demand-side management and real-time pricing. <i>Energy and Buildings</i> , <b>2017</b> , 150, 177-188	7	35
85	Cooperative Deterministic Learning-Based Formation Control for a Group of Nonlinear Uncertain Mechanical Systems. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 319-333	11.9	34
84	Adaptive dynamic programming for robust neural control of unknown continuous-time non-linear systems. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 2307-2316	2.5	30
83	Learning to Navigate Through Complex Dynamic Environment With Modular Deep Reinforcement Learning. <i>IEEE Transactions on Games</i> , <b>2018</b> , 10, 400-412	1.2	30
82	A Finger Vein Image-Based Personal Identification System With Self-Adaptive Illuminance Control. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 294-304	5.2	29
81	Gr-GDHP: A New Architecture for Globalized Dual Heuristic Dynamic Programming. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3318-3330	10.2	29
80	Data-Driven Distributed Output Consensus Control for Partially Observable Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 848-858	10.2	29
79	Interactive Energy Management for Enhancing Power Balances in Multi-Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 6055-6069	10.7	28
78	Consensus-Based Distributed Control for Photovoltaic-Battery Units in a DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 7778-7787	8.9	27
77	Event-triggered differentially private average consensus for multi-agent network. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2019</b> , 6, 75-83	7	26
76	Advanced Secondary Voltage Recovery Control for Multiple HESSs in a Droop-Controlled DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 3828-3839	10.7	26
75	Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 4043-4055	7.3	26
74	Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 2501-2511	7.3	25
73	ANGEL: An Intelligent Digital Twin Framework for Microgrid Security <b>2019</b> ,		22
72	Feasibility Identification and Computational Efficiency Improvement for Two-Stage RUC With Multiple Wind Farms. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 1669-1678	8.2	20
71	Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 1748-1758	10.7	20

70	Online Scheduling of a Residential Microgrid via Monte-Carlo Tree Search and a Learned Model. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 1073-1087	10.7	20
69	Global Stabilization of Fuzzy Memristor-Based Reaction-Diffusion Neural Networks. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 4658-4669	10.2	19
68	An Event-Driven ADR Approach for Residential Energy Resources in Microgrids With Uncertainties. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 5275-5288	8.9	19
67	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2020</b> , 32, 2159-2170	4.2	19
66	Adaptive critic designs for optimal control of uncertain nonlinear systems with unmatched interconnections. <i>Neural Networks</i> , <b>2018</b> , 105, 142-153	9.1	17
65	GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2362-2374	7.3	17
64	Approximate Dynamic Programming for Nonlinear-Constrained Optimizations. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2419-2432	10.2	17
63	Decentralized Event-Triggered Control for a Class of Nonlinear-Interconnected Systems Using Reinforcement Learning. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 635-648	10.2	17
62	Neuro-Optimal Tracking Control for Continuous Stirred Tank Reactor With Input Constraints. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 4516-4524	11.9	16
61	Learning HumanRobot Interaction for Robot-Assisted Pedestrian Flow Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 797-813	7.3	16
60	Continuous-Time Distributed Policy Iteration for Multicontroller Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2372-2383	10.2	16
59	Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 1267-1277	7.3	16
58	Local Linear SpatialSpectral Probabilistic Distribution for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 1259-1272	8.1	15
57	Flexibility Provisions in Active Distribution Networks With Uncertainties. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 1-1	8.2	15
56	Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 3959-3971	7.3	15
55	Event-Driven H-Constrained Control Using Adaptive Critic Learning. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 4860-4872	10.2	13
54	A Generative Model for Sparse Hyperparameter Determination. <i>IEEE Transactions on Big Data</i> , <b>2018</b> , 4, 2-10	3.2	13
53	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 3173-3183	5.2	12

52	A Novel Framework for Gear Safety Factor Prediction. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1998-2007	11.9	12
51	Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-13	7.3	11
50	Intermittent Stabilization of Fuzzy Competitive Neural Networks With Reaction Diffusions. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 2361-2372	8.3	10
49	Edge-Based Adaptive Distributed Method for Synchronization of Intermittently Coupled Spatiotemporal Networks. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	10
48	A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 3716-3725	10.7	8
47	Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-13	7.3	8
46	On-Line Energy Management of Microgrid via Parametric Cost Function Approximation. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 3300-3302	7	7
45	Unified Residue Method for Design of Compact Wide-area Damping Controller Based on Power System Stabilizer. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2020</b> , 8, 367-376	4	7
44	Model-Independent Formation Tracking of Multiple Euler-Lagrange Systems via Bounded Inputs. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2813-2823	10.2	7
43	A Virtual-Real Interaction Approach to Object Instance Segmentation in Traffic Scenes. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 863-875	6.1	7
42	Weakly supervised object localization with deep convolutional neural network based on spatial pyramid saliency map <b>2017</b> ,		6
41	Bipartite Graph based Multi-view Clustering. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2020</b> , 1-1	4.2	6
40	Smart Grid Anomaly Detection using a Deep Learning Digital Twin <b>2021</b> ,		6
39	AnswerNet: Learning to Answer Questions. <i>IEEE Transactions on Big Data</i> , <b>2019</b> , 5, 540-549	3.2	6
38	Real-Time Coordinated Scheduling for ADNs with Soft Open Points and Charging Stations. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 1-1	7	6
37	Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-15	7.3	5
36	Dual Alignment for Partial Domain Adaptation. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 3404-3416	10.2	5
35	Multi-level PV inverter with photovoltaic groups independent MPPT control <b>2014</b> ,		5

34	Frequency Restoration and Oscillation Damping of Distributed VSGs in Microgrid With Low Bandwidth Communication. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 1-1	10.7	5
33	Adversarial Domain Adaptation via Category Transfer <b>2019</b> ,		5
32	A Cascaded Distributed Control Framework in DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 205-214	10.7	5
31	Small Fault Detection of Discrete-Time Nonlinear Uncertain Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 750-764	10.2	5
30	Cooperative Adaptive Containment Control With Parameter Convergence via Cooperative Finite-Time Excitation. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	5
29	Adaptive Observer-Based Output Regulation of Multiagent Systems With Communication Constraints. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 5259-5268	10.2	4
28	Modeling of low voltage power network used as high frequency communication channel based on experimental results in china		4
27	Deep Reinforcement Learning for Economic Energy Scheduling in Data Center Microgrids <b>2019</b> ,		4
26	Synthetic-to-Real Domain Adaptation for Object Instance Segmentation <b>2019</b> ,		4
25	Optimal Feedback Control of Pedestrian Flow in Heterogeneous Corridors. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 1097-1108	4.9	4
24	. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2021</b> , 51, 12-21	4.1	4
23	Lyapunov Optimization Based Online Energy Flow Control for Multi-energy Community Microgrids <b>2019</b> ,		3
22	Learning to Operate Distribution Networks with Safe Deep Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , <b>2022</b> , 1-1	10.7	3
21	Incomplete Multi-view Clustering with Joint Partition and Graph Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2021</b> , 1-1	4.2	3
20	Shunt Active Power Filter Based on Proportional Integral and Multi Vector Resonant Controllers for Compensating Nonlinear Loads. <i>Journal of Electrical and Computer Engineering</i> , <b>2018</b> , 2018, 1-11	1.9	3
19	Enhancement of isolated distributed generation system power quality using DSTATCOM <b>2017</b> ,		2
18	Coordinated optimal control strategy for multi-energy microgrids considering P2G technology and demand response <b>2017</b> ,		2
17	Deep Transfer Cooperative Sensing in Cognitive Radio. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1354-1358	5.9	2

16	A Fault-Tolerant Location Approach for Transient Voltage Disturbance Source Based on Information Fusion. <i>Energies</i> , <b>2016</b> , 9, 1092	3.1	2
15	Overall Adaptive Controller Design of PMSG Under Whole Wind Speed Range: A Perturbation Compensation Based Approach. <i>Processes</i> , <b>2019</b> , 7, 732	2.9	2
14	Event-triggered online energy flow control strategy for regional integrated energy system using Lyapunov optimization. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 125, 106451	5.1	2
13	Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 4520-4531	7.3	2
12	Distributed Volt-VAR Optimization based on Multi-Agent Deep Reinforcement Learning <b>2021</b> ,		2
11	. <i>IEEE Access</i> , <b>2021</b> , 9, 23554-23564	3.5	2
10	Dynamic Power Sharing and Autonomous Voltage Regulation in Islanded DC Microgrids <b>2019</b> ,		1
9	Evolutionary Search for Energy-Efficient Distributed Cooperative Spectrum Sensing <b>2020</b> ,		1
8	Outage Management Strategy for Multi-Microgrids Considering Uncertain Islanding Duration <b>2018</b> ,		1
7	Enhancing the damping ability of wide-area power system by employing time delay <b>2017</b> ,		1
6	Enabling Online Scheduling for Multi-Microgrid Systems: An Event-Triggered Approach. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 1836-1852	10.7	1
5	Imbalanced Learning for Cooperative Spectrum Sensing in Cognitive Radio Networks <b>2019</b> ,		1
4	Impact analysis of cyber system in microgrids: Perspective from economy and reliability. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 135, 107422	5.1	1
3	Sampled-Data Consensus for Networked Euler-Lagrange Systems With Differentiable Scaling Functions. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	1
2	A Decentralized Energy Flow Control Framework for Regional Energy Internet. <i>Complexity</i> , <b>2019</b> , 2019, 1-10	1.6	
1	Bottleneck Generator Identification and the Corresponding N-1 Frequency Security Constrained Intraday Generator Dispatch. <i>IEEE Transactions on Power Systems</i> , <b>2022</b> , 1-1	7	