Ruizhuo Song

List of Publications by Year
in descending order

78 papers	2,659 citations	218677 26 h-index	189892 50 g-index
78 all docs	78 docs citations	78 times ranked	1188 citing authors

#	Article	IF	Citations
1	Data-Driven Zero-Sum Neuro-Optimal Control for a Class of Continuous-Time Unknown Nonlinear Systems With Disturbance Using ADP. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 444-458.	11.3	198
2	Off-Policy Actor-Critic Structure for Optimal Control of Unknown Systems With Disturbances. IEEE Transactions on Cybernetics, 2016, 46, 1041-1050.	9.5	180
3	Optimal Tracking Control for a Class of Nonlinear Discrete-Time Systems With Time Delays Based on Heuristic Dynamic Programming. IEEE Transactions on Neural Networks, 2011, 22, 1851-1862.	4.2	172
4	Off-Policy Integral Reinforcement Learning Method to Solve Nonlinear Continuous-Time Multiplayer Nonzero-Sum Games. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 704-713.	11.3	168
5	Discrete-Time Deterministic Q -Learning: A Novel Convergence Analysis. IEEE Transactions on Cybernetics, 2017, 47, 1224-1237.	9.5	159
6	Optimal constrained self-learning battery sequential management in microgrid via adaptive dynamic programming. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 168-176.	13.1	150
7	Adaptive Dynamic Programming for a Class of Complex-Valued Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1733-1739.	11.3	125
8	Multiple Actor-Critic Structures for Continuous-Time Optimal Control Using Input-Output Data. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 851-865.	11.3	125
9	Adaptive Dynamic Programming for Discrete-Time Zero-Sum Games. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 957-969.	11.3	123
10	Adaptive Dynamic Programming-Based Optimal Control Scheme for Energy Storage Systems With Solar Renewable Energy. IEEE Transactions on Industrial Electronics, 2017, 64, 5468-5478.	7.9	121
11	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Convergence Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 875-891.	9.3	121
12	Discrete-Time Optimal Control via Local Policy Iteration Adaptive Dynamic Programming. IEEE Transactions on Cybernetics, 2017, 47, 3367-3379.	9.5	90
13	Discrete-Time Impulsive Adaptive Dynamic Programming. IEEE Transactions on Cybernetics, 2020, 50, 4293-4306.	9.5	73
14	Optimal control laws for time-delay systems with saturating actuators based on heuristic dynamic programming. Neurocomputing, 2010, 73, 3020-3027.	5.9	66
15	Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4009-4019.	9.3	58
16	Error-Tolerant Iterative Adaptive Dynamic Programming for Optimal Renewable Home Energy Scheduling and Battery Management. IEEE Transactions on Industrial Electronics, 2017, 64, 9527-9537.	7.9	47
17	Discrete-Time Non-Zero-Sum Games With Completely Unknown Dynamics. IEEE Transactions on Cybernetics, 2021, 51, 2929-2943.	9.5	45
18	Model-Free Adaptive Optimal Control for Unknown Nonlinear Multiplayer Nonzero-Sum Game. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 879-892.	11.3	43

#	Article	IF	Citations
19	Robust optimal control for a class of nonlinear systems with unknown disturbances based on disturbance observer and policy iteration. Neurocomputing, 2020, 390, 185-195.	5.9	43
20	Self-Learning Optimal Control for Ice-Storage Air Conditioning Systems via Data-Based Adaptive Dynamic Programming. IEEE Transactions on Industrial Electronics, 2021, 68, 3599-3608.	7.9	43
21	Neural-network-based synchronous iteration learning method for multi-player zero-sum games. Neurocomputing, 2017, 242, 73-82.	5.9	40
22	Discrete-Time Stable Generalized Self-Learning Optimal Control With Approximation Errors. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1226-1238.	11.3	39
23	Optimal fixed-point tracking control for discrete-time nonlinear systems via ADP. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 657-666.	13.1	36
24	Multi-objective optimal control for a class of unknown nonlinear systems based on finite-approximation-error ADP algorithm. Neurocomputing, 2013, 119, 212-221.	5.9	32
25	Nonlinear neuro-optimal tracking control via stable iterative Q-learning algorithm. Neurocomputing, 2015, 168, 520-528.	5.9	27
26	Nearly finite-horizon optimal control for a class of nonaffine time-delay nonlinear systems based on adaptive dynamic programming. Neurocomputing, 2015, 156, 166-175.	5.9	27
27	The finite-horizon optimal control for a class of time-delay affine nonlinear system. Neural Computing and Applications, 2013, 22, 229-235.	5.6	23
28	Event-triggered constrained robust control for partly-unknown nonlinear systems via ADP. Neurocomputing, 2020, 404, 294-303.	5.9	21
29	Data-driven finite-horizon optimal tracking control scheme for completely unknown discrete-time nonlinear systems. Neurocomputing, 2019, 356, 206-216.	5.9	20
30	Leader–Follower Bipartite Output Synchronization on Signed Digraphs Under Adversarial Factors via Data-Based Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4185-4195.	11.3	20
31	Optimal Synchronization Control of Heterogeneous Asymmetric Input-Constrained Unknown Nonlinear MASs via Reinforcement Learning. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 520-532.	13.1	20
32	Multi-objective optimal control for a class of nonlinear time-delay systems via adaptive dynamic programming. Soft Computing, 2013, 17, 2109-2115.	3.6	19
33	Leader-follower time-varying output formation control of heterogeneous systems under cyber attack with active leader. Information Sciences, 2022, 585, 24-40.	6.9	19
34	A new self-learning optimal control laws for a class of discrete-time nonlinear systems based on ESN architecture. Science China Information Sciences, 2014, 57, 1-10.	4.3	17
35	Neural-network-based approach to finite-time optimal control for a class of unknown nonlinear systems. Soft Computing, 2014, 18, 1645-1653.	3.6	16
36	ADP-based optimal sensor scheduling for target tracking in energy harvesting wireless sensor networks. Neural Computing and Applications, 2016, 27, 1543-1551.	5.6	16

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37	Stable value iteration for two-player zero-sum game of discrete-time nonlinear systems based on adaptive dynamic programming. Neurocomputing, 2019, 340, 180-195.	5.9	15
38	Online Optimal Event-Triggered H_∞ Control for Nonlinear Systems With Constrained State and Input. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 131-141.	9.3	14
39	Mix-zero-sum differential games for linear systems with unknown dynamics based on off-policy IRL. Neurocomputing, 2020, 398, 280-290.	5.9	12
40	Bipartite state synchronization of heterogeneous system with active leader on signed digraph under adversarial inputs. Neurocomputing, 2019, 369, 69-79.	5.9	8
41	Synchronous optimal control method for nonlinear systems with saturating actuators and unknown dynamics using off-policy integral reinforcement learning. Neurocomputing, 2019, 356, 162-169.	5.9	8
42	Output Resilient Containment Control of Heterogeneous Systems With Active Leaders Using Reinforcement Learning Under Attack Inputs. IEEE Access, 2019, 7, 162219-162228.	4.2	6
43	Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6819-6829.	9.3	6
44	Virtual Fire Evacuation Drills through a Web-Based Serious Game. Applied Sciences (Switzerland), 2021, 11, 11284.	2.5	6
45	Output event-triggered tracking synchronization of heterogeneous systems on directed digraph via model-free reinforcement learning. Information Sciences, 2021, 559, 171-190.	6.9	5
46	Distributed optimized dynamic event-triggered control for unknown heterogeneous nonlinear MASs with input-constrained. Neural Networks, 2022, 154, 1-12.	5.9	5
47	Near-optimal control laws based on Heuristic Dynamic Programming iteration algorithm. , 2010, , .		3
48	Optimal tracking control for a class of continuous time complex-valued systems based on adaptive dynamic programming algorithm. , 2014, , .		3
49	Containment control of heterogeneous systems with active leaders of bounded unknown control using reinforcement learning. , 2017, , .		3
50	Optimal event-triggered control for C-T system with asymmetric constraints based on dual heuristic dynamic programing structure. Optimal Control Applications and Methods, 2023, 44, 1305-1320.	2.1	3
51	A Single-NN Iterative Adaptive Dynamic Programming Algorithm for Continuous-Time Nonlinear Zero-Sum Games. , 2018, , .		3
52	Self-learning sensor scheduling for target tracking in wireless sensor networks based on adaptive dynamic programming. , 2012, , .		2
53	Off-policy neuro-optimal control for unknown complex-valued nonlinear systems based on policy iteration. Neural Computing and Applications, 2017, 28, 1435-1441.	5.6	2
54	Discrete-time optimal zero-sum games for nonlinear systems via adaptive dynamic programming. , 2017, , .		2

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55	Optimal Finite-Time Tracking Control for a Class of Unknown Nonlinear System Based on Input-Output Data. , 2018, , .		2
56	Nonlinear Neuro-Optimal Tracking Control via Stable Iterative Q-Learning Algorithm. Studies in Systems, Decision and Control, 2018, , 111-131.	1.0	2
57	N-step optimal time-invariant trajectory tracking control for a class of nonlinear systems. , 2011, , .		1
58	Optimal control for a class of nonlinear system with controller constraints based on finite-approximation-errors ADP algorithm. , 2013, , .		1
59	Neural-network-based optimal control for a class of complex-valued nonlinear systems with input saturation. , 2014, , .		1
60	Iterative Q-learning-based nonlinear optimal tracking control. , 2016, , .		1
61	Adaptive dynamic programming based decentralized tracking control for unknown large-scale systems. , 2017, , .		1
62	Consensus Control of Multi-Agent Systems With Two-Way Switching Directed Topology. IFAC-PapersOnLine, 2020, 53, 669-674.	0.9	1
63	Application of NARX dynamic neural network in blood glucose prediction model. , 2020, , .		1
64	Multiple data-based ADP structures to solve the infinite horizon optimal control problem. , 2015, , .		0
65	Nearly optimal tracking control for continuous time nonlinear systems using a policy iteration based HJB approach. , 2015, , .		0
66	Discrete-time optimal control scheme based on Q-learning algorithm. , 2016, , .		0
67	Analyses for optimal control of discrete time-delay systems based on ADP algorithm with finite-horizon performance index. , 2016, , .		0
68	Optimal control laws for nonlinear oscillator systems with saturating actuators using neural networks based on policy iteration. , 2016, , .		0
69	Discrete-time generalized policy iteration ADP algorithm with approximation errors. , 2017, , .		0
70	ADP-Based Optimal Sensor Scheduling for Target Tracking in Energy Harvesting Wireless Sensor Networks. Studies in Systems, Decision and Control, 2018, , 215-228.	1.0	0
71	Parallel Adaptive Critic Designs of Optimal Control for Ice-Storage Air Conditioning Systems. , 2019, , .		0
72	Optimal and Stable Control for Two-Player Zero-Sum Game Using Adaptive Dynamic Programming. , 2019, , .		0

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73	Online Optimal Event-triggered Tracking Control with Actuator Saturation via ADP. , 2020, , .		0
74	Flexible Joint Manipulator Control Based on Adaptive Dynamic Programming. , 2020, , .		0
75	A New Continuous-Time Policy Iteration for Time-Varying Nonlinear Systems. , 2020, , .		0
76	Meal estimation based on UKF and postprandial glucose control for patients with type I diabetes. , 2021, , .		0
77	Data-Based Online Optimal Control for Multi-player Nonlinear Non-zero-Sum Games Using Recursive Least Squares. , 2021, , .		0
78	Event-triggered Suboptimal Control Based Adaptive Reinforcement Learning. , 2021, , .		0