

Qinglai Wei

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

6,095
citations

43
h-index

77
g-index

153
ext. papers

8,003
ext. citations

5.9
avg, IF

6.66
L-index

#	Paper	IF	Citations
109	A novel infinite-time optimal tracking control scheme for a class of discrete-time nonlinear systems via the greedy HDP iteration algorithm. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 937-42		348
108	Policy iteration adaptive dynamic programming algorithm for discrete-time nonlinear systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 621-34	10.3	337
107	An iterative adaptive dynamic programming method for solving a class of nonlinear zero-sum differential games. <i>Automatica</i> , 2011 , 47, 207-214	5.7	279
106	Optimal control of unknown nonaffine nonlinear discrete-time systems based on adaptive dynamic programming. <i>Automatica</i> , 2012 , 48, 1825-1832	5.7	265
105	Adaptive dynamic programming for finite-horizon optimal control of discrete-time nonlinear systems with error bound. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 24-36		214
104	Value Iteration Adaptive Dynamic Programming for Optimal Control of Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 840-53	10.2	202
103	Finite-Approximation-Error-Based Optimal Control Approach for Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 779-89	10.2	182
102	Optimal Home Energy Management Under Dynamic Electrical and Thermal Constraints. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 1518-1527	11.9	179
101	Reinforcement-Learning-Based Robust Controller Design for Continuous-Time Uncertain Nonlinear Systems Subject to Input Constraints. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1372-85	10.2	177
100	Finite-horizon neuro-optimal tracking control for a class of discrete-time nonlinear systems using adaptive dynamic programming approach. <i>Neurocomputing</i> , 2012 , 78, 14-22	5.4	157
99	Adaptive Dynamic Programming for Optimal Tracking Control of Unknown Nonlinear Systems With Application to Coal Gasification. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014 , 11, 1020-1036	4.9	142
98	Finite-approximation-error-based discrete-time iterative adaptive dynamic programming. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 2820-33	10.2	136
97	Data-Driven Neuro-Optimal Temperature Control of Water-Gas Shift Reaction Using Stable Iterative Adaptive Dynamic Programming. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6399-6408	8.9	134
96	Optimal tracking control for a class of nonlinear discrete-time systems with time delays based on heuristic dynamic programming. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1851-62		134
95	Data-Driven Zero-Sum Neuro-Optimal Control for a Class of Continuous-Time Unknown Nonlinear Systems With Disturbance Using ADP. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 444-58	10.3	132
94	Off-Policy Actor-Critic Structure for Optimal Control of Unknown Systems With Disturbances. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1041-50	10.2	127
93	A novel dual iterative Q-learning method for optimal battery management in smart residential environments. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2509-2518	8.9	116

92	Discrete-Time Deterministic Q-Learning: A Novel Convergence Analysis. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1224-1237	10.2	115
91	Adaptive Dynamic Programming with Applications in Optimal Control. <i>Advances in Industrial Control</i> , 2017 ,	0.3	111
90	Residential energy scheduling for variable weather solar energy based on adaptive dynamic programming. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2018 , 5, 36-46	7	106
89	Off-Policy Integral Reinforcement Learning Method to Solve Nonlinear Continuous-Time Multiplayer Nonzero-Sum Games. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 704-713	10.3	104
88	Infinite horizon self-learning optimal control of nonaffine discrete-time nonlinear systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 866-79	10.3	101
87	Multiple actor-critic structures for continuous-time optimal control using input-output data. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 851-65	10.3	95
86	Neural-Network-Based Distributed Adaptive Robust Control for a Class of Nonlinear Multiagent Systems With Time Delays and External Noises. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 750-758	7.3	94
85	A Novel Iterative θ -Adaptive Dynamic Programming for Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014 , 11, 1176-1190	4.9	93
84	Action dependent heuristic dynamic programming for home energy resource scheduling. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 48, 148-160	5.1	93
83	Neural-network-observer-based optimal control for unknown nonlinear systems using adaptive dynamic programming. <i>International Journal of Control</i> , 2013 , 86, 1554-1566	1.5	90
82	Mixed Iterative Adaptive Dynamic Programming for Optimal Battery Energy Control in Smart Residential Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4110-4120	8.9	84
81	Multibattery Optimal Coordination Control for Home Energy Management Systems via Distributed Iterative Adaptive Dynamic Programming. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4203-4214	8.9	83
80	Adaptive Dynamic Programming-Based Optimal Control Scheme for Energy Storage Systems With Solar Renewable Energy. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5468-5478	8.9	82
79	Optimal constrained self-learning battery sequential management in microgrid via adaptive dynamic programming. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2017 , 4, 168-176	7	79
78	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Convergence Analysis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 875-891	7.3	76
77	An iterative γ -optimal control scheme for a class of discrete-time nonlinear systems with unfixed initial state. <i>Neural Networks</i> , 2012 , 32, 236-44	9.1	75
76	Guaranteed cost neural tracking control for a class of uncertain nonlinear systems using adaptive dynamic programming. <i>Neurocomputing</i> , 2016 , 198, 80-90	5.4	69
75	Adaptive Dynamic Programming for Discrete-Time Zero-Sum Games. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 957-969	10.3	67

74	Optimal distributed synchronization control for continuous-time heterogeneous multi-agent differential graphical games. <i>Information Sciences</i> , 2015 , 317, 96-113	7.7	64
73	Discrete-Time Optimal Control via Local Policy Iteration Adaptive Dynamic Programming. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3367-3379	10.2	62
72	Numerical adaptive learning control scheme for discrete-time non-linear systems. <i>IET Control Theory and Applications</i> , 2013 , 7, 1472-1486	2.5	61
71	Adaptive Dynamic Programming for Control: A Survey and Recent Advances. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 142-160	7.3	61
70	Online approximate optimal control for affine non-linear systems with unknown internal dynamics using adaptive dynamic programming. <i>IET Control Theory and Applications</i> , 2014 , 8, 1676-1688	2.5	60
69	Adaptive Dynamic Programming Algorithm for Renewable Energy Scheduling and Battery Management. <i>Cognitive Computation</i> , 2013 , 5, 264-277	4.4	57
68	Neural-network-based adaptive optimal tracking control scheme for discrete-time nonlinear systems with approximation errors. <i>Neurocomputing</i> , 2015 , 149, 106-115	5.4	56
67	Generalized Policy Iteration Adaptive Dynamic Programming for Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2015 , 45, 1577-1591	7.3	47
66	Discrete-time online learning control for a class of unknown nonaffine nonlinear systems using reinforcement learning. <i>Neural Networks</i> , 2014 , 55, 30-41	9.1	42
65	Parallel control for continuous-time linear systems: A case study. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020 , 7, 919-928	7	33
64	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 9527-9537	8.9	30
63	A novel policy iteration based deterministic Q-learning for discrete-time nonlinear systems. <i>Science China Information Sciences</i> , 2015 , 58, 1-15	3.4	30
62	Discrete-Time Stable Generalized Self-Learning Optimal Control With Approximation Errors. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 1226-1238	10.3	28
61	Dual iterative adaptive dynamic programming for a class of discrete-time nonlinear systems with time-delays. <i>Neural Computing and Applications</i> , 2013 , 23, 1851-1863	4.8	26
60	. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 423-431	7	25
59	Neural-network-based synchronous iteration learning method for multi-player zero-sum games. <i>Neurocomputing</i> , 2017 , 242, 73-82	5.4	24
58	Echo state network-based Q-learning method for optimal battery control of offices combined with renewable energy. <i>IET Control Theory and Applications</i> , 2017 , 11, 915-922	2.5	24
57	Stable iterative adaptive dynamic programming algorithm with approximation errors for discrete-time nonlinear systems. <i>Neural Computing and Applications</i> , 2014 , 24, 1355-1367	4.8	24

56	Parallel control for optimal tracking via adaptive dynamic programming. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020 , 7, 1662-1674	7	24
55	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Admissibility and Termination Analysis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 2490-2502	10.3	21
54	Continuous-Time Time-Varying Policy Iteration. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4958-4971	10.2	21
53	A novel optimal tracking control scheme for a class of discrete-time nonlinear systems using generalised policy iteration adaptive dynamic programming algorithm. <i>International Journal of Systems Science</i> , 2017 , 48, 525-534	2.3	19
52	Neuro-optimal tracking control for a class of discrete-time nonlinear systems via generalized value iteration adaptive dynamic programming approach. <i>Soft Computing</i> , 2016 , 20, 697-706	3.5	19
51	Discrete-Time Impulsive Adaptive Dynamic Programming. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4293-4306	10.2	19
50	Optimal Elevator Group Control via Deep Asynchronous Actor-Critic Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 5245-5256	10.3	18
49	Multiperson zero-sum differential games for a class of uncertain nonlinear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2014 , 28, 205-231	2.8	17
48	Continuous-Time Distributed Policy Iteration for Multicontroller Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 2372-2383	10.2	16
47	Multi-objective optimal control for a class of nonlinear time-delay systems via adaptive dynamic programming. <i>Soft Computing</i> , 2013 , 17, 2109-2115	3.5	15
46	ADP-based optimal sensor scheduling for target tracking in energy harvesting wireless sensor networks. <i>Neural Computing and Applications</i> , 2016 , 27, 1543-1551	4.8	14
45	Discrete-Time Self-Learning Parallel Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-13	7.3	13
44	Neural-network-based approach to finite-time optimal control for a class of unknown nonlinear systems. <i>Soft Computing</i> , 2014 , 18, 1645-1653	3.5	12
43	Self-Learning Optimal Control for Ice-Storage Air Conditioning Systems via Data-Based Adaptive Dynamic Programming. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 3599-3608	8.9	12
42	Online identifier-actor-critic algorithm for optimal control of nonlinear systems. <i>Optimal Control Applications and Methods</i> , 2017 , 38, 317-335	1.7	11
41	Optimization of electricity consumption in office buildings based on adaptive dynamic programming. <i>Soft Computing</i> , 2017 , 21, 6369-6379	3.5	11
40	Direct adaptive control for a class of discrete-time unknown nonaffine nonlinear systems using neural networks. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 1844-1861	3.6	11
39	Adaptive dynamic programming with stable value iteration algorithm for discrete-time nonlinear systems 2012 ,		11

38	Discrete-Time Non-Zero-Sum Games With Completely Unknown Dynamics. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 2929-2943	10.2	11
37	Event-triggered adaptive dynamic programming for discrete-time multi-player games. <i>Information Sciences</i> , 2020 , 506, 457-470	7.7	10
36	Adaptive Critic Learning for Constrained Optimal Event-Triggered Control With Discounted Cost. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 91-104	10.3	10
35	A novel triggering condition of event-triggered control based on heuristic dynamic programming for discrete-time systems. <i>Optimal Control Applications and Methods</i> , 2018 , 39, 1467-1478	1.7	9
34	An adaptive critic approach to event-triggered robust control of nonlinear systems with unmatched uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 3501-3519	3.6	9
33	Adaptive tracking control of leader-following linear multi-agent systems with external disturbances. <i>International Journal of Systems Science</i> , 2016 , 47, 3167-3179	2.3	9
32	Model-Free Adaptive Optimal Control for Unknown Nonlinear Multiplayer Nonzero-Sum Game. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	9
31	Nash Q-learning based equilibrium transfer for integrated energy management game with We-Energy. <i>Neurocomputing</i> , 2020 , 396, 216-223	5.4	9
30	Reinforcement learning for robust adaptive control of partially unknown nonlinear systems subject to unmatched uncertainties. <i>Information Sciences</i> , 2018 , 463-464, 307-322	7.7	9
29	Event-Triggered Optimal Parallel Tracking Control for Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3	9
28	Learning Control for Air Conditioning Systems via Human Expressions. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 7662-7671	8.9	8
27	Adaptive Critic Designs for Optimal Event-Driven Control of a CSTR System. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 484-493	11.9	8
26	Robust global consensus tracking of linear multi-agent systems with input saturation via scheduled low-and-high gain feedback. <i>IET Control Theory and Applications</i> , 2019 , 13, 69-77	2.5	6
25	Optimal control for discrete-time systems with actuator saturation. <i>Optimal Control Applications and Methods</i> , 2017 , 38, 1071-1080	1.7	5
24	An off-policy iteration algorithm for robust stabilization of constrained-input uncertain nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 5747-5765	3.6	5
23	Topology Prediction and Structural Controllability Analysis of Complex Networks Without Connection Information. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3	4
22	Generalized Actor-Critic Learning Optimal Control in Smart Home Energy Management. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 6614-6623	11.9	4
21	Adaptive Critics for Decentralized Stabilization of Constrained-Input Nonlinear Interconnected Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3	4

20	Optimal tracking control for a class of continuous time complex-valued systems based on adaptive dynamic programming algorithm 2014,		3
19	A new optimal control method for discrete-time nonlinear systems with approximation error 2012,		3
18	Event-Triggered Near-Optimal Control of Discrete-Time Constrained Nonlinear Systems With Application to a Boiler-Turbine System. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	3
17	Decentralized Event-Driven Constrained Control Using Adaptive Critic Designs. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	3
16	A New Approach to Finite-Horizon Optimal Control of Discrete-Time Affine Nonlinear Systems Via A Pseudo-Linear Method. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	3
15	Data-driven room classification for office buildings based on echo state network 2015,		2
14	Near-optimal online control of uncertain nonlinear continuous-time systems based on concurrent learning 2014,		2
13	Cyber-Physical -Social Systems for Smart Cities: An Overview 2021,		2
12	Off-policy neuro-optimal control for unknown complex-valued nonlinear systems based on policy iteration. <i>Neural Computing and Applications</i> , 2017 , 28, 1435-1441	4.8	1
11	Self-Learning Optimal Control of Nonlinear Systems. <i>Studies in Systems, Decision and Control</i> , 2018 ,	0.8	1
10	Optimal self-learning battery control in smart residential grids by iterative Q-learning algorithm 2014,		1
9	Adaptive Event-Triggered Near-Optimal Tracking Control for Unknown Continuous-Time Nonlinear Systems. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
8	Optimal self-learning control scheme for discrete-time nonlinear systems using local value iteration 2016,		1
7	A Tracking Control Method based on Event-Triggered Adaptive Dynamic Programming 2019,		1
6	Gain scheduling consensus of multi-agent systems subject to actuator saturation. <i>International Journal of Control</i> , 2020 , 93, 771-782	1.5	1
5	A partial policy iteration ADP algorithm for nonlinear neuro-optimal control with discounted total reward. <i>Neurocomputing</i> , 2021 , 424, 23-34	5.4	1
4	Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 3944-3947	7.3	0
3	Neural-Network-Based Synchronous Iteration Learning Method for Multi-player Zero-Sum Games. <i>Studies in Systems, Decision and Control</i> , 2019 , 207-225	0.8	

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| 2 | An Event-Triggered Heuristic Dynamic Programming Algorithm for Discrete-Time Nonlinear Systems. <i>Lecture Notes in Computer Science</i> , 2017 , 741-748 | 0.9 |
| 1 | Spiking Adaptive Dynamic Programming with Poisson Process. <i>Lecture Notes in Computer Science</i> , 2021 , 525-532 | 0.9 |