Qinglai Wei

List of Publications by Year in Descending Order

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	Adaptive Event-Triggered Near-Optimal Tracking Control for Unknown Continuous-Time Nonlinear Systems. *IEEE Access*, **2022**, 1-1	3.5	1
108	Topology Prediction and Structural Controllability Analysis of Complex Networks Without Connection Information. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-13	7.3	4
107	Cyber-Physical -Social Systems for Smart Cities: An Overview **2021**,		2
106	Continuous-Time Distributed Policy Iteration for Multicontroller Nonlinear Systems. *IEEE Transactions on Cybernetics*, **2021**, 51, 2372-2383	10.2	16
105	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	8.9	12
104	Adaptive Critic Learning for Constrained Optimal Event-Triggered Control With Discounted Cost. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 91-104	10.3	10
103	Learning Control for Air Conditioning Systems via Human Expressions. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 7662-7671	8.9	8
102	Adaptive Critic Designs for Optimal Event-Driven Control of a CSTR System. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 484-493	11.9	8
101	A partial policy iteration ADP algorithm for nonlinear neuro-optimal control with discounted total reward. *Neurocomputing*, **2021**, 424, 23-34	5.4	1
100	Generalized Actor-Critic Learning Optimal Control in Smart Home Energy Management. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 6614-6623	11.9	4
99	Discrete-Time Non-Zero-Sum Games With Completely Unknown Dynamics. *IEEE Transactions on Cybernetics*, **2021**, 51, 2929-2943	10.2	11
98	Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 142-160	7.3	61
97	Event-Triggered Near-Optimal Control of Discrete-Time Constrained Nonlinear Systems With Application to a Boiler-Turbine System. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	3
96	Decentralized Event-Driven Constrained Control Using Adaptive Critic Designs. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	3
95	Adaptive Critics for Decentralized Stabilization of Constrained-Input Nonlinear Interconnected Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-13	7.3	4
94	A New Approach to Finite-Horizon Optimal Control of Discrete-Time Affine Nonlinear Systems Via A Pseudo-Linear Method. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	3
93	. *IEEE/CAA Journal of Automatica Sinica*, **2021**, 8, 423-431	7	25

92	Event-Triggered Optimal Parallel Tracking Control for Discrete-Time Nonlinear Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-13	7.3	9
91	Spiking Adaptive Dynamic Programming with Poisson Process. *Lecture Notes in Computer Science*, **2021**, 525-532	0.9	
90	Parallel control for continuous-time linear systems: A case study. *IEEE/CAA Journal of Automatica Sinica*, **2020**, 7, 919-928	7	33
89	Discrete-Time Self-Learning Parallel Control. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-13	7.3	13
88	Optimal Elevator Group Control via Deep Asynchronous Actor-Critic Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 5245-5256	10.3	18
87	Parallel control for optimal tracking via adaptive dynamic programming. *IEEE/CAA Journal of Automatica Sinica*, **2020**, 7, 1662-1674	7	24
86	Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 3944-3947	7.3	0
85	Model-Free Adaptive Optimal Control for Unknown Nonlinear Multiplayer Nonzero-Sum Game. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP,	10.3	9
84	Event-triggered adaptive dynamic programming for discrete-time multi-player games. *Information Sciences*, **2020**, 506, 457-470	7.7	10
83	Nash Q-learning based equilibrium transfer for integrated energy management game with We-Energy. *Neurocomputing*, **2020**, 396, 216-223	5.4	9
82	Discrete-Time Impulsive Adaptive Dynamic Programming. *IEEE Transactions on Cybernetics*, **2020**, 50, 4293-4306	10.2	19
81	Gain scheduling consensus of multi-agent systems subject to actuator saturation. *International Journal of Control*, **2020**, 93, 771-782	1.5	1
80	Continuous-Time Time-Varying Policy Iteration. *IEEE Transactions on Cybernetics*, **2020**, 50, 4958-4971	10.2	21
79	Robust global consensus tracking of linear multi-agent systems with input saturation via scheduled low-and-high gain feedback. *IET Control Theory and Applications*, **2019**, 13, 69-77	2.5	6
78	Neural-Network-Based Synchronous Iteration Learning Method for Multi-player Zero-Sum Games. *Studies in Systems, Decision and Control*, **2019**, 207-225	0.8	
77	A Tracking Control Method based on Event-Triggered Adaptive Dynamic Programming **2019**,		1
76	A novel triggering condition of event-triggered control based on heuristic dynamic programming for discrete-time systems. *Optimal Control Applications and Methods*, **2018**, 39, 1467-1478	1.7	9
75	An adaptive critic approach to event-triggered robust control of nonlinear systems with unmatched uncertainties. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 3501-3519	3.6	9

74	Residential energy scheduling for variable weather solar energy based on adaptive dynamic programming. *IEEE/CAA Journal of Automatica Sinica*, **2018**, 5, 36-46	7	106
73	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Convergence Analysis. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 875-891	7.3	76
72	Adaptive Dynamic Programming for Discrete-Time Zero-Sum Games. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 957-969	10.3	67
71	Discrete-Time Stable Generalized Self-Learning Optimal Control With Approximation Errors. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 1226-1238	10.3	28
70	Self-Learning Optimal Control of Nonlinear Systems. *Studies in Systems, Decision and Control*, **2018**,	0.8	1
69	An off-policy iteration algorithm for robust stabilization of constrained-input uncertain nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 5747-5765	3.6	5
68	Reinforcement learning for robust adaptive control of partially unknown nonlinear systems subject to unmatched uncertainties. *Information Sciences*, **2018**, 463-464, 307-322	7.7	9
67	Online identifier–actor–critic algorithm for optimal control of nonlinear systems. *Optimal Control Applications and Methods*, **2017**, 38, 317-335	1.7	11
66	Off-policy neuro-optimal control for unknown complex-valued nonlinear systems based on policy iteration. *Neural Computing and Applications*, **2017**, 28, 1435-1441	4.8	1
65	A novel optimal tracking control scheme for a class of discrete-time nonlinear systems using generalised policy iteration adaptive dynamic programming algorithm. *International Journal of Systems Science*, **2017**, 48, 525-534	2.3	19
64	Optimization of electricity consumption in office buildings based on adaptive dynamic programming. *Soft Computing*, **2017**, 21, 6369-6379	3.5	11
63	Discrete-Time Deterministic Q -Learning: A Novel Convergence Analysis. *IEEE Transactions on Cybernetics*, **2017**, 47, 1224-1237	10.2	115
62	Mixed Iterative Adaptive Dynamic Programming for Optimal Battery Energy Control in Smart Residential Microgrids. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 4110-4120	8.9	84
61	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Admissibility and Termination Analysis. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 2490-2502	10.3	21
60	Adaptive Dynamic Programming-Based Optimal Control Scheme for Energy Storage Systems With Solar Renewable Energy. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 5468-5478	8.9	82
59	Neural-network-based synchronous iteration learning method for multi-player zero-sum games. *Neurocomputing*, **2017**, 242, 73-82	5.4	24
58	Optimal control for discrete-time systems with actuator saturation. *Optimal Control Applications and Methods*, **2017**, 38, 1071-1080	1.7	5
57	Echo state network-based Q-learning method for optimal battery control of offices combined with renewable energy. *IET Control Theory and Applications*, **2017**, 11, 915-922	2.5	24

56	. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9527-9537	8.9	30
55	Adaptive Dynamic Programming with Applications in Optimal Control. *Advances in Industrial Control* , **2017**,	0.3	111
54	Optimal constrained self-learning battery sequential management in microgrid via adaptive dynamic programming. *IEEE/CAA Journal of Automatica Sinica*, **2017**, 4, 168-176	7	79
53	Discrete-Time Optimal Control via Local Policy Iteration Adaptive Dynamic Programming. *IEEE Transactions on Cybernetics*, **2017**, 47, 3367-3379	10.2	62
52	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	10.3	104
51	An Event-Triggered Heuristic Dynamic Programming Algorithm for Discrete-Time Nonlinear Systems. *Lecture Notes in Computer Science*, **2017**, 741-748	0.9	
50	Neural-Network-Based Distributed Adaptive Robust Control for a Class of Nonlinear Multiagent Systems With Time Delays and External Noises. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2016**, 46, 750-758	7.3	94
49	ADP-based optimal sensor scheduling for target tracking in energy harvesting wireless sensor networks. *Neural Computing and Applications*, **2016**, 27, 1543-1551	4.8	14
48	Off-Policy Actor-Critic Structure for Optimal Control of Unknown Systems With Disturbances. *IEEE Transactions on Cybernetics*, **2016**, 46, 1041-50	10.2	127
47	Neuro-optimal tracking control for a class of discrete-time nonlinear systems via generalized value iteration adaptive dynamic programming approach. *Soft Computing*, **2016**, 20, 697-706	3.5	19
46	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, 444-58	10.3	132
45	Guaranteed cost neural tracking control for a class of uncertain nonlinear systems using adaptive dynamic programming. *Neurocomputing*, **2016**, 198, 80-90	5.4	69
44	Value Iteration Adaptive Dynamic Programming for Optimal Control of Discrete-Time Nonlinear Systems. *IEEE Transactions on Cybernetics*, **2016**, 46, 840-53	10.2	202
43	Adaptive tracking control of leader-following linear multi-agent systems with external disturbances. *International Journal of Systems Science*, **2016**, 47, 3167-3179	2.3	9
42	Optimal self-learning control scheme for discrete-time nonlinear systems using local value iteration **2016**,		1
41	Multiple actor-critic structures for continuous-time optimal control using input-output data. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 851-65	10.3	95
40	Infinite horizon self-learning optimal control of nonaffine discrete-time nonlinear systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 866-79	10.3	101
39	Reinforcement-Learning-Based Robust Controller Design for Continuous-Time Uncertain Nonlinear Systems Subject to Input Constraints. *IEEE Transactions on Cybernetics*, **2015**, 45, 1372-85	10.2	177

38	Optimal distributed synchronization control for continuous-time heterogeneous multi-agent differential graphical games. *Information Sciences*, **2015**, 317, 96-113	7.7	64
37	Data-driven room classification for office buildings based on echo state network **2015**,		2
36	A novel dual iterative Q-learning method for optimal battery management in smart residential environments. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 2509-2518	8.9	116
35	Direct adaptive control for a class of discrete-time unknown nonaffine nonlinear systems using neural networks. *International Journal of Robust and Nonlinear Control*, **2015**, 25, 1844-1861	3.6	11
34	Neural-network-based adaptive optimal tracking control scheme for discrete-time nonlinear systems with approximation errors. *Neurocomputing*, **2015**, 149, 106-115	5.4	56
33	A novel policy iteration based deterministic Q-learning for discrete-time nonlinear systems. *Science China Information Sciences*, **2015**, 58, 1-15	3.4	30
32	Generalized Policy Iteration Adaptive Dynamic Programming for Discrete-Time Nonlinear Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2015**, 45, 1577-1591	7.3	47
31	Multibattery Optimal Coordination Control for Home Energy Management Systems via Distributed Iterative Adaptive Dynamic Programming. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4203-4214	8.9	83
30	Policy iteration adaptive dynamic programming algorithm for discrete-time nonlinear systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 621-34	10.3	337
29	Near-optimal online control of uncertain nonlinear continuous-time systems based on concurrent learning **2014**,		2
28	Data-Driven Neuro-Optimal Temperature Control of Water–Gas Shift Reaction Using Stable Iterative Adaptive Dynamic Programming. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 6399-6408	8.9	134
27	Neural-network-based approach to finite-time optimal control for a class of unknown nonlinear systems. *Soft Computing*, **2014**, 18, 1645-1653	3.5	12
26	A Novel Iterative $theta $-Adaptive Dynamic Programming for Discrete-Time Nonlinear Systems. *IEEE Transactions on Automation Science and Engineering*, **2014**, 11, 1176-1190	4.9	93
25	Adaptive Dynamic Programming for Optimal Tracking Control of Unknown Nonlinear Systems With Application to Coal Gasification. *IEEE Transactions on Automation Science and Engineering*, **2014**, 11, 1020-1036	4.9	142
24	Finite-approximation-error-based discrete-time iterative adaptive dynamic programming. *IEEE Transactions on Cybernetics*, **2014**, 44, 2820-33	10.2	136
23	Optimal self-learning battery control in smart residential grids by iterative Q-learning algorithm **2014**,		1
22	Online approximate optimal control for affine non-linear systems with unknown internal dynamics using adaptive dynamic programming. *IET Control Theory and Applications*, **2014**, 8, 1676-1688	2.5	60
21	Optimal tracking control for a class of continuous time complex-valued systems based on adaptive dynamic programming algorithm **2014**,		3

20	Multiperson zero-sum differential games for a class of uncertain nonlinear systems. *International Journal of Adaptive Control and Signal Processing*, **2014**, 28, 205-231	2.8	17
19	Discrete-time online learning control for a class of unknown nonaffine nonlinear systems using reinforcement learning. *Neural Networks*, **2014**, 55, 30-41	9.1	42
18	Stable iterative adaptive dynamic programming algorithm with approximation errors for discrete-time nonlinear systems. *Neural Computing and Applications*, **2014**, 24, 1355-1367	4.8	24
17	Multi-objective optimal control for a class of nonlinear time-delay systems via adaptive dynamic programming. *Soft Computing*, **2013**, 17, 2109-2115	3.5	15
16	Dual iterative adaptive dynamic programming for a class of discrete-time nonlinear systems with time-delays. *Neural Computing and Applications*, **2013**, 23, 1851-1863	4.8	26
15	Action dependent heuristic dynamic programming for home energy resource scheduling. *International Journal of Electrical Power and Energy Systems*, **2013**, 48, 148-160	5.1	93
14	Adaptive Dynamic Programming Algorithm for Renewable Energy Scheduling and Battery Management. *Cognitive Computation*, **2013**, 5, 264-277	4.4	57
13	Finite-Approximation-Error-Based Optimal Control Approach for Discrete-Time Nonlinear Systems. *IEEE Transactions on Cybernetics*, **2013**, 43, 779-89	10.2	182
12	Optimal Home Energy Management Under Dynamic Electrical and Thermal Constraints. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 1518-1527	11.9	179
11	Numerical adaptive learning control scheme for discrete-time non-linear systems. *IET Control Theory and Applications*, **2013**, 7, 1472-1486	2.5	61
10	Neural-network-observer-based optimal control for unknown nonlinear systems using adaptive dynamic programming. *International Journal of Control*, **2013**, 86, 1554-1566	1.5	90
9	Finite-horizon neuro-optimal tracking control for a class of discrete-time nonlinear systems using adaptive dynamic programming approach. *Neurocomputing*, **2012**, 78, 14-22	5.4	157
8	A new optimal control method for discrete-time nonlinear systems with approximation error **2012**,		3
7	Adaptive dynamic programming with stable value iteration algorithm for discrete-time nonlinear systems **2012**,		11
6	An iterative ?-optimal control scheme for a class of discrete-time nonlinear systems with unfixed initial state. *Neural Networks*, **2012**, 32, 236-44	9.1	75
5	Optimal control of unknown nonaffine nonlinear discrete-time systems based on adaptive dynamic programming. *Automatica*, **2012**, 48, 1825-1832	5.7	265
4	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, 1851-62		134
3	Adaptive dynamic programming for finite-horizon optimal control of discrete-time nonlinear systems with Ɛ-error bound. *IEEE Transactions on Neural Networks*, **2011**, 22, 24-36		214

| 2 | An iterative adaptive dynamic programming method for solving a class of nonlinear zero-sum differential games. *Automatica*, **2011**, 47, 207-214 | 5.7 | 279 |
| 1 | A novel infinite-time optimal tracking control scheme for a class of discrete-time nonlinear systems via the greedy HDP iteration algorithm. *IEEE Transactions on Systems, Man, and Cybernetics*, **2008**, 38, 937-42 | | 348 |