Derong Liu

List of Publications by Year
in descending order

531 papers	20,749 citations	6250 80 h-index	12933 131 g-index
575 all docs	575 docs citations	575 times ranked	6433 citing authors

#	Article	IF	Citations
1	Adaptive Dynamic Programming: An Introduction. IEEE Computational Intelligence Magazine, 2009, 4, 39-47.	3.4	711
2	Neural-Network-Based Near-Optimal Control for a Class of Discrete-Time Affine Nonlinear Systems With Control Constraints. IEEE Transactions on Neural Networks, 2009, 20, 1490-1503.	4.8	567
3	Policy Iteration Adaptive Dynamic Programming Algorithm for Discrete-Time Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 621-634.	7.2	547
4	A Comprehensive Review of Stability Analysis of Continuous-Time Recurrent Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1229-1262.	7.2	528
5	An iterative adaptive dynamic programming method for solving a class of nonlinear zero-sum differential games. Automatica, 2011, 47, 207-214.	3.0	373
6	Optimal control of unknown nonaffine nonlinear discrete-time systems based on adaptive dynamic programming. Automatica, 2012, 48, 1825-1832.	3.0	354
7	Value Iteration Adaptive Dynamic Programming for Optimal Control of Discrete-Time Nonlinear Systems. IEEE Transactions on Cybernetics, 2016, 46, 840-853.	6.2	339
8	Global Asymptotic Stability of Recurrent Neural Networks With Multiple Time-Varying Delays. IEEE Transactions on Neural Networks, 2008, 19, 855-873.	4.8	313
9	Reinforcement-Learning-Based Robust Controller Design for Continuous-Time Uncertain Nonlinear Systems Subject to Input Constraints. IEEE Transactions on Cybernetics, 2015, 45, 1372-1385.	6.2	291
10	Adaptive Critic Nonlinear Robust Control: A Survey. IEEE Transactions on Cybernetics, 2017, 47, 3429-3451.	6.2	287
11	Decentralized Stabilization for a Class of Continuous-Time Nonlinear Interconnected Systems Using Online Learning Optimal Control Approach. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 418-428.	7.2	283
12	Adaptive Dynamic Programming for Control: A Survey and Recent Advances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 142-160.	5.9	280
13	Adaptive Dynamic Programming for Finite-Horizon Optimal Control of Discrete-Time Nonlinear Systems With ε-Error Bound. IEEE Transactions on Neural Networks, 2011, 22, 24-36.	4.8	279
14	Adaptive Dynamic Programming with Applications in Optimal Control. Advances in Industrial Control, 2017, , .	0.4	259
15	Neural-Network-Based Online HJB Solution for Optimal Robust Guaranteed Cost Control of Continuous-Time Uncertain Nonlinear Systems. IEEE Transactions on Cybernetics, 2014, 44, 2834-2847.	6.2	253
16	Finite-Approximation-Error-Based Optimal Control Approach for Discrete-Time Nonlinear Systems. IEEE Transactions on Cybernetics, 2013, 43, 779-789.	6.2	252
17	Model-Free Optimal Tracking Control via Critic-Only Q-Learning. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2134-2144.	7.2	245
18	Data-based approximate policy iteration for affine nonlinear continuous-time optimal control design. Automatica, 2014, 50, 3281-3290.	3.0	228

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19	Online Synchronous Approximate Optimal Learning Algorithm for Multi-Player Non-Zero-Sum Games With Unknown Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1015-1027.	5.9	204
20	Finite-horizon neuro-optimal tracking control for a class of discrete-time nonlinear systems using adaptive dynamic programming approach. Neurocomputing, 2012, 78, 14-22.	3.5	203
21	Residential energy scheduling for variable weather solar energy based on adaptive dynamic programming. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 36-46.	8.5	197
22	Adaptive Dynamic Programming for Control. Communications and Control Engineering, 2013, , .	1.0	192
23	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.	3.4	188
24	Policy Iteration Algorithm for Online Design of Robust Control for a Class of Continuous-Time Nonlinear Systems. IEEE Transactions on Automation Science and Engineering, 2014, 11, 627-632.	3.4	187
25	A novel dual iterative Q-learning method for optimal battery management in smart residential environments. IEEE Transactions on Industrial Electronics, 2015, 62, 2509-2518.	5.2	183
26	Data-Based Adaptive Critic Designs for Nonlinear Robust Optimal Control With Uncertain Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1544-1555.	5.9	180
27	Finite-Approximation-Error-Based Discrete-Time Iterative Adaptive Dynamic Programming. IEEE Transactions on Cybernetics, 2014, 44, 2820-2833.	6.2	176
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.	5.2	166
29	Neural-network-based zero-sum game for discrete-time nonlinear systems via iterative adaptive dynamic programming algorithm. Neurocomputing, 2013, 110, 92-100.	3.5	163
30	Integral Reinforcement Learning for Linear Continuous-Time Zero-Sum Games With Completely Unknown Dynamics. IEEE Transactions on Automation Science and Engineering, 2014, 11, 706-714.	3.4	161
31	Delay-Dependent Guaranteed Cost Control for Uncertain Stochastic Fuzzy Systems With Multiple Time Delays. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 126-140.	5.5	160
32	Reinforcement learning for adaptive optimal control of unknown continuous-time nonlinear systems with input constraints. International Journal of Control, 2014, 87, 553-566.	1.2	159
33	Optimal constrained self-learning battery sequential management in microgrid via adaptive dynamic programming. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 168-176.	8.5	150
34	Neural-Network-Based Optimal Control for a Class of Unknown Discrete-Time Nonlinear Systems Using Globalized Dual Heuristic Programming. IEEE Transactions on Automation Science and Engineering, 2012, 9, 628-634.	3.4	145
35	Policy Gradient Adaptive Dynamic Programming for Data-Based Optimal Control. IEEE Transactions on Cybernetics, 2017, 47, 3341-3354.	6.2	145
36	A Self-Learning Call Admission Control Scheme for CDMA Cellular Networks. IEEE Transactions on Neural Networks, 2005, 16, 1219-1228.	4.8	143

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37	Infinite Horizon Self-Learning Optimal Control of Nonaffine Discrete-Time Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 866-879.	7.2	135
38	Neural-network-based robust optimal control design for a class of uncertain nonlinear systems via adaptive dynamic programming. Information Sciences, 2014, 282, 167-179.	4.0	133
39	Mixed Iterative Adaptive Dynamic Programming for Optimal Battery Energy Control in Smart Residential Microgrids. IEEE Transactions on Industrial Electronics, 2017, 64, 4110-4120.	5.2	131
40	Fuzzy H_∞ Filter Design for a Class of Nonlinear Discrete-Time Systems With Multiple Time Delays. IEEE Transactions on Fuzzy Systems, 2007, 15, 453-469.	6.5	130
41	Adaptive Critic Learning Techniques for Engine Torque and Air–Fuel Ratio Control. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 988-993.	5.5	130
42	Event-Triggered Decentralized Tracking Control of Modular Reconfigurable Robots Through Adaptive Dynamic Programming. IEEE Transactions on Industrial Electronics, 2020, 67, 3054-3064.	5.2	130
43	Taguchi Method for Solving the Economic Dispatch Problem With Nonsmooth Cost Functions. IEEE Transactions on Power Systems, 2005, 20, 2006-2014.	4.6	129
44	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.	5.9	129
45	Intelligent Optimal Control With Critic Learning for a Nonlinear Overhead Crane System. IEEE Transactions on Industrial Informatics, 2018, 14, 2932-2940.	7.2	129
46	Decentralized Control for Large-Scale Nonlinear Systems With Unknown Mismatched Interconnections via Policy Iteration. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1725-1735.	5.9	129
47	Action dependent heuristic dynamic programming for home energy resource scheduling. International Journal of Electrical Power and Energy Systems, 2013, 48, 148-160.	3.3	128
48	An Approximate Optimal Control Approach for Robust Stabilization of a Class of Discrete-Time Nonlinear Systems With Uncertainties. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 713-717.	5.9	128
49	Event-Triggered Optimal Control With Performance Guarantees Using Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 76-88.	7.2	125
50	Adaptive Dynamic Programming for Discrete-Time Zero-Sum Games. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 957-969.	7.2	123
51	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Convergence Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 875-891.	5.9	121
52	A Novel Iterative <formula formulatype="inline"> <tex Notation="TeX">$heta $</tex></formula>-Adaptive Dynamic Programming for Discrete-Time Nonlinear Systems. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1176-1190.	3.4	120
53	Neural-network-based online optimal control for uncertain nonlinear continuous-time systems with control constraints. IET Control Theory and Applications, 2013, 7, 2037-2047.	1.2	119
54	Neural-network-observer-based optimal control for unknown nonlinear systems using adaptive dynamic programming. International Journal of Control, 2013, 86, 1554-1566.	1.2	116

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55	An iterative adaptive dynamic programming algorithm for optimal control of unknown discrete-time nonlinear systems with constrained inputs. Information Sciences, 2013, 220, 331-342.	4.0	115
56	Robust Stability Analysis for Interval Cohenâ€"Grossberg Neural Networks With Unknown Time-Varying Delays. IEEE Transactions on Neural Networks, 2008, 19, 1942-1955.	4.8	112
57	Optimal control for discrete-time affine non-linear systems using general value iteration. IET Control Theory and Applications, 2012, 6, 2725-2736.	1.2	111
58	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
59	Generalized Policy Iteration Adaptive Dynamic Programming for Discrete-Time Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1577-1591.	5.9	109
60	Adaptive <inline-formula> <tex-math notation="LaTeX">Q </tex-math> </inline-formula>-Learning for Data-Based Optimal Output Regulation With Experience Replay. IEEE Transactions on Cybernetics, 2018, 48, 3337-3348.	6.2	108
61	On Mixed Data and Event Driven Design for Adaptive-Critic-Based Nonlinear H_{infty} Control. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 993-1005.	7.2	108
62	Multibattery Optimal Coordination Control for Home Energy Management Systems via Distributed Iterative Adaptive Dynamic Programming. IEEE Transactions on Industrial Electronics, 2015, 62, 4203-4214.	5.2	106
63	Guaranteed cost neural tracking control for a class of uncertain nonlinear systems using adaptive dynamic programming. Neurocomputing, 2016, 198, 80-90.	3.5	102
64	Robust Exponential Stability of Recurrent Neural Networks With Multiple Time-Varying Delays. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 730-734.	2.3	101
65	An Introduction to Parallel Control and Management for High-Speed Railway Systems. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1473-1483.	4.7	100
66	Reinforcement Learning-Based Optimal Stabilization for Unknown Nonlinear Systems Subject to Inputs With Uncertain Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4330-4340.	7.2	100
67	Sparsely interconnected neural networks for associative memories with applications to cellular neural networks. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1994, 41, 295-307.	2.3	99
68	Global Asymptotic Stability and Robust Stability of a Class of Cohen&#x2013;Grossberg Neural Networks With Mixed Delays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 616-629.	3.5	98
69	Optimal distributed synchronization control for continuous-time heterogeneous multi-agent differential graphical games. Information Sciences, 2015, 317, 96-113.	4.0	97
70	Reinforcement learning solution for HJB equation arising in constrained optimal control problem. Neural Networks, 2015, 71, 150-158.	3.3	97
71	Data-based fault tolerant control for affine nonlinear systems through particle swarm optimized neural networks. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 954-964.	8.5	97
72	A Neural Network Method for Detection of Obstructive Sleep Apnea and Narcolepsy Based on Pupil Size and EEG. IEEE Transactions on Neural Networks, 2008, 19, 308-318.	4.8	94

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73	Discrete-Time Optimal Control via Local Policy Iteration Adaptive Dynamic Programming. IEEE Transactions on Cybernetics, 2017, 47, 3367-3379.	6.2	90
74	Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3189-3199.	5.9	90
75	A self-learning scheme for residential energy system control and management. Neural Computing and Applications, 2013, 22, 259-269.	3.2	88
76	An iterative -optimal control scheme for a class of discrete-time nonlinear systems with unfixed initial state. Neural Networks, 2012, 32, 236-244.	3.3	87
77	Neural-network-based optimal tracking control scheme for a class of unknown discrete-time nonlinear systems using iterative ADP algorithm. Neurocomputing, 2014, 125, 46-56.	3.5	86
78	Adaptive Constrained Optimal Control Design for Data-Based Nonlinear Discrete-Time Systems With Critic-Only Structure. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2099-2111.	7.2	86
79	Necessary and sufficient conditions for the Hurwitz and Schur stability of interval matrices. IEEE Transactions on Automatic Control, 1994, 39, 1251-1255.	3.6	84
80	Intelligent Critic Control With Disturbance Attenuation for Affine Dynamics Including an Application to a Microgrid System. IEEE Transactions on Industrial Electronics, 2017, 64, 4935-4944.	5.2	83
81	Event-Driven Nonlinear Discounted Optimal Regulation Involving a Power System Application. IEEE Transactions on Industrial Electronics, 2017, 64, 8177-8186.	5.2	83
82	Observer based adaptive dynamic programming for fault tolerant control of a class of nonlinear systems. Information Sciences, 2017, 384, 21-33.	4.0	83
83	Learning and Guaranteed Cost Control With Event-Based Adaptive Critic Implementation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6004-6014.	7.2	83
84	Neural Network Learning and Robust Stabilization of Nonlinear Systems With Dynamic Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1342-1351.	7.2	77
85	Energy consumption prediction of office buildings based on echo state networks. Neurocomputing, 2016, 216, 478-488.	3.5	76
86	Adaptive optimal control for a class of continuous-time affine nonlinear systems with unknown internal dynamics. Neural Computing and Applications, 2013, 23, 1843-1850.	3.2	75
87	Adaptive Dynamic Programming Algorithm for Renewable Energy Scheduling and Battery Management. Cognitive Computation, 2013, 5, 264-277.	3.6	75
88	Online approximate optimal control for affine nonâ€linear systems with unknown internal dynamics using adaptive dynamic programming. IET Control Theory and Applications, 2014, 8, 1676-1688.	1.2	73
89	Neural-network-based adaptive optimal tracking control scheme for discrete-time nonlinear systems with approximation errors. Neurocomputing, 2015, 149, 106-115.	3.5	73
90	Numerical adaptive learning control scheme for discreteâ€time nonâ€linear systems. IET Control Theory and Applications, 2013, 7, 1472-1486.	1.2	72

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91	Improving the Critic Learning for Event-Based Nonlinear H_{∞} Control Design. IEEE Transactions on Cybernetics, 2017, 47, 3417-3428.	6.2	72
92	Discounted Iterative Adaptive Critic Designs With Novel Stability Analysis for Tracking Control. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1262-1272.	8.5	72
93	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
94	Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3158-3168.	5.9	71
95	Data-based robust adaptive control for a class of unknown nonlinear constrained-input systems via integral reinforcement learning. Information Sciences, 2016, 369, 731-747.	4.0	70
96	A supervised Actor–Critic approach for adaptive cruise control. Soft Computing, 2013, 17, 2089-2099.	2.1	69
97	Motif Discoveries in Unaligned Molecular Sequences Using Self-Organizing Neural Networks. IEEE Transactions on Neural Networks, 2006, 17, 919-928.	4.8	68
98	Action-dependent adaptive critic designs. , 0, , .		66
99	Data-driven controller design for general MIMO nonlinear systems via virtual reference feedback tuning and neural networks. Neurocomputing, 2016, 171, 815-825.	3.5	66
100	Lyapunov stability of two-dimensional digital filters with overflow nonlinearities. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 574-577.	0.1	65
101	An adaptive algorithm for call admission control in wireless networks. , 0, , .		65
102	Editorial: The Blossoming of the IEEE Transactions on Neural Networks. IEEE Transactions on Neural Networks, 2011, 22, 1850-1850.	4.8	64
103	Data-Based Controllability and Observability Analysis of Linear Discrete-Time Systems. IEEE Transactions on Neural Networks, 2011, 22, 2388-2392.	4.8	63
104	Two new operators in rough set theory with applications to fuzzy sets. Information Sciences, 2004, 166, 147-165.	4.0	62
105	Policy Iteration <i>Q</i>-Learning for Data-Based Two-Player Zero-Sum Game of Linear Discrete-Time Systems. IEEE Transactions on Cybernetics, 2021, 51, 3630-3640.	6.2	62
106	Lie algebraic stability analysis for switched systems with continuous-time and discrete-time subsystems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 152-156.	2.3	59
107	Error Bounds of Adaptive Dynamic Programming Algorithms for Solving Undiscounted Optimal Control Problems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1323-1334.	7.2	59
108	Data-based robust optimal control of continuous-time affine nonlinear systems with matched uncertainties. Information Sciences, 2016, 366, 121-133.	4.0	58

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109	Online approximate solution of HJI equation for unknown constrained-input nonlinear continuous-time systems. Information Sciences, 2016, 328, 435-454.	4.0	58
110	Output Tracking Control Based on Adaptive Dynamic Programming With Multistep Policy Evaluation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2155-2165.	5.9	56
111	Neuro-optimal control for a class of unknown nonlinear dynamic systems using SN-DHP technique. Neurocomputing, 2013, 121, 218-225.	3.5	55
112	Event-Triggered ADP for Tracking Control of Partially Unknown Constrained Uncertain Systems. IEEE Transactions on Cybernetics, 2022, 52, 9001-9012.	6.2	55
113	Wavelet Basis Function Neural Networks for Sequential Learning. IEEE Transactions on Neural Networks, 2008, 19, 523-528.	4.8	53
114	Discrete-time online learning control for a class of unknown nonaffine nonlinear systems using reinforcement learning. Neural Networks, 2014, 55, 30-41.	3.3	53
115	A novel policy iteration based deterministic Q-learning for discrete-time nonlinear systems. Science China Information Sciences, 2015, 58, 1-15.	2.7	53
116	Neural network robust tracking control with adaptive critic framework for uncertain nonlinear systems. Neural Networks, 2018, 97, 11-18.	3.3	53
117	A constructive algorithm for feedforward neural networks with incremental training. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1876-1879.	0.1	52
118	Event-Triggered Adaptive Dynamic Programming for Unmatched Uncertain Nonlinear Continuous-Time Systems. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2939-2951.	7.2	52
119	Constrained Event-Triggered H_∞ Control Based on Adaptive Dynamic Programming With Concurrent Learning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 357-369.	5.9	51
120	Multi-Agent Based Adaptive Consensus Control for Multiple Manipulators with Kinematic Uncertainties. , 2008, , .		50
121	Neural-network-based decentralized control of continuous-time nonlinear interconnected systems with unknown dynamics. Neurocomputing, 2015, 165, 90-98.	3.5	48
122	Online fault compensation control based on policy iteration algorithm for a class of affine non€linear systems with actuator failures. IET Control Theory and Applications, 2016, 10, 1816-1823.	1.2	48
123	Decentralized guaranteed cost control of interconnected systems with uncertainties: A learning-based optimal control strategy. Neurocomputing, 2016, 214, 297-306.	3.5	48
124	Sliding-Mode Surface-Based Approximate Optimal Control for Uncertain Nonlinear Systems With Asymptotically Stable Critic Structure. IEEE Transactions on Cybernetics, 2021, 51, 2858-2869.	6.2	48
125	Pinning synchronization of memristor-based neural networks with time-varying delays. Neural Networks, 2017, 93, 143-151.	3.3	46
126	Event-based input-constrained nonlinear H_∞ state feedback with adaptive critic and neural implementation. Neurocomputing, 2016, 214, 848-856.	3.5	45

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127	Synthesis of fractional gaussian noise using linear approximation for generating self-similar network traffic. Computer Communication Review, 2000, 30, 4-17.	1.5	43
128	Model-Free Adaptive Optimal Control for Unknown Nonlinear Multiplayer Nonzero-Sum Game. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 879-892.	7.2	43
129	Criteria for robust absolute stability of time-varying nonlinear continuous-time systems. Automatica, 2002, 38, 627-637.	3.0	42
130	Guest Editorial - Special Issue on Adaptive Dynamic Programming and Reinforcement Learning in Feedback Control. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 896-897.	5.5	42
131	Centralized and decentralized event-triggered control for group consensus with fixed topology in continuous time. Neurocomputing, 2015, 161, 267-276.	3.5	42
132	Distributed control algorithm for bipartite consensus of the nonlinear time-delayed multi-agent systems with neural networks. Neurocomputing, 2016, 174, 928-936.	3.5	42
133	Continuous-Time Time-Varying Policy Iteration. IEEE Transactions on Cybernetics, 2020, 50, 4958-4971.	6.2	42
134	Event-Triggered Control of Discrete-Time Zero-Sum Games via Deterministic Policy Gradient Adaptive Dynamic Programming. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4823-4835.	5.9	42
135	Fault detection and control co-design for discrete-time delayed fuzzy networked control systems subject to quantization and multiple packet dropouts. Fuzzy Sets and Systems, 2017, 306, 1-25.	1.6	41
136	Observer-critic structure-based adaptive dynamic programming for decentralised tracking control of unknown large-scale nonlinear systems. International Journal of Systems Science, 2017, 48, 1978-1989.	3.7	41
137	An Indirect Data-Driven Method for Trajectory Tracking Control of a Class of Nonlinear Discrete-Time Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 4121-4129.	5.2	41
138	Event-Based Constrained Robust Control of Affine Systems Incorporating an Adaptive Critic Mechanism. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1602-1612.	5.9	40
139	Adaptive dynamic programming for robust neural control of unknown continuousâ€time nonâ€linear systems. IET Control Theory and Applications, 2017, 11, 2307-2316.	1.2	40
140	Model-Free H_{∞} Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4097-4108.	5.9	39
141	Dual Heuristic dynamic Programming for nonlinear discrete-time uncertain systems with state delay. Neurocomputing, 2014, 134, 222-229.	3.5	38
142	Deterministic policy gradient adaptive dynamic programming for model-free optimal control. Neurocomputing, 2020, 387, 40-50.	3.5	38
143	Neural robust stabilization via event-triggering mechanism and adaptive learning technique. Neural Networks, 2018, 102, 27-35.	3.3	37
144	Global Output Convergence of a Class of Continuous-Time Recurrent Neural Networks With Time-Varying Thresholds. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 161-167.	2.3	35

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145	CHAOTIFYING FUZZY HYPERBOLIC MODEL USING ADAPTIVE INVERSE OPTIMAL CONTROL APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3505-3517.	0.7	35
146	Adaptive dynamic programming based event-triggered control for unknown continuous-time nonlinear systems with input constraints. Neurocomputing, 2020, 396, 191-200.	3.5	35
147	Generalized value iteration for discounted optimal control with stability analysis. Systems and Control Letters, 2021, 147, 104847.	1.3	35
148	Nested auto-regressive processes for MPEG-encoded video traffic modeling. IEEE Transactions on Circuits and Systems for Video Technology, 2001, 11, 169-183.	5.6	34
149	Stable iterative adaptive dynamic programming algorithm with approximation errors for discrete-time nonlinear systems. Neural Computing and Applications, 2014, 24, 1355-1367.	3.2	34
150	Echo state networkâ€based Qâ€learning method for optimal battery control of offices combined with renewable energy. IET Control Theory and Applications, 2017, 11, 915-922.	1.2	34
151	Multi-step heuristic dynamic programming for optimal control of nonlinear discrete-time systems. Information Sciences, 2017, 411, 66-83.	4.0	34
152	Stability analysis of systems with partial state saturation nonlinearities. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1996, 43, 230-232.	0.1	32
153	Cloning template design of cellular neural networks for associative memories. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 646-650.	0.1	32
154	Residential energy system control and management using adaptive dynamic programming. , 2011, , .		32
155	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.	2.1	32
156	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Admissibility and Termination Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2490-2502.	7.2	32
157	A Data-Based State Feedback Control Method for a Class of Nonlinear Systems. IEEE Transactions on Industrial Informatics, 2013, 9, 2284-2292.	7.2	31
158	Self-tuned local feedback gain based decentralized fault tolerant control for a class of large-scale nonlinear systems. Neurocomputing, 2017, 235, 147-156.	3.5	31
159	A neural-network-based iterative GDHP approach for solving a class of nonlinear optimal control problems with control constraints. Neural Computing and Applications, 2013, 22, 219-227.	3.2	30
160	Periodic Event-Triggered Suboptimal Control With Sampling Period and Performance Analysis. IEEE Transactions on Cybernetics, 2021, 51, 1253-1261.	6.2	29
161	Deep Learning-Based Trajectory Planning and Control for Autonomous Ground Vehicle Parking Maneuver. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1633-1647.	3.4	29
162	New robust stability results for bidirectional associative memory neural networks with multiple time delays. Applied Mathematics and Computation, 2012, 218, 11472-11482.	1.4	28

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163	Feature selection and feature learning for high-dimensional batch reinforcement learning: A survey. International Journal of Automation and Computing, 2015, 12, 229-242.	4.5	28
164	Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 539-549.	5.9	28
165	Event-triggered constrained control with DHP implementation for nonaffine discrete-time systems. Information Sciences, 2020, 519, 110-123.	4.0	28
166	Policy Gradient Adaptive Critic Designs for Model-Free Optimal Tracking Control With Experience Replay. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3692-3703.	5.9	28
167	Solving the N-bit parity problem using neural networks. Neural Networks, 1999, 12, 1321-1323.	3.3	27
168	TNNLS Call for Reviewers and Special Issues. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1-6.	7.2	27
169	Reliable observer-based Hâˆž control for discrete-time fuzzy systems with time-varying delays and stochastic actuator faults via scaled small gain theorem. Neurocomputing, 2015, 147, 251-259.	3.5	27
170	Event-triggered adaptive dynamic programming for discrete-time multi-player games. Information Sciences, 2020, 506, 457-470.	4.0	27
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