

# Frank L Lewis

## List of Publications by Year in descending order

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367  
papers

32,697  
citations

6233

80  
h-index

4978

167  
g-index

390  
all docs

390  
docs citations

390  
times ranked

10457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Online actor-critic algorithm to solve the continuous-time infinite horizon optimal control problem. <i>Automatica</i> , 2010, 46, 878-888.	3.0	1,153
2	Reinforcement learning and adaptive dynamic programming for feedback control. <i>IEEE Circuits and Systems Magazine</i> , 2009, 9, 32-50.	2.6	1,125
3	Nearly optimal control laws for nonlinear systems with saturating actuators using a neural network HJB approach. <i>Automatica</i> , 2005, 41, 779-791.	3.0	1,017
4	Multilayer neural-net robot controller with guaranteed tracking performance. <i>IEEE Transactions on Neural Networks</i> , 1996, 7, 388-399.	4.8	948
5	Discrete-Time Nonlinear HJB Solution Using Approximate Dynamic Programming: Convergence Proof. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008, 38, 943-949.	5.5	865
6	Adaptive cooperative tracking control of higher-order nonlinear systems with unknown dynamics. <i>Automatica</i> , 2012, 48, 1432-1439.	3.0	832
7	Optimal Design for Synchronization of Cooperative Systems: State Feedback, Observer and Output Feedback. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 1948-1952.	3.6	802
8	Reinforcement Learning and Feedback Control: Using Natural Decision Methods to Design Optimal Adaptive Controllers. <i>IEEE Control Systems</i> , 2012, 32, 76-105.	1.0	730
9	Distributed Cooperative Control of DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 2288-2303.	5.4	713
10	Distributed Cooperative Secondary Control of Microgrids Using Feedback Linearization. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 3462-3470.	4.6	700
11	Distributed adaptive control for synchronization of unknown nonlinear networked systems. <i>Automatica</i> , 2010, 46, 2014-2021.	3.0	567
12	Neural net robot controller with guaranteed tracking performance. <i>IEEE Transactions on Neural Networks</i> , 1995, 6, 703-715.	4.8	557
13	Lyapunov, Adaptive, and Optimal Design Techniques for Cooperative Systems on Directed Communication Graphs. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 3026-3041.	5.2	540
14	Optimal and Autonomous Control Using Reinforcement Learning: A Survey. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 2042-2062.	7.2	512
15	Neural network approach to continuous-time direct adaptive optimal control for partially unknown nonlinear systems. <i>Neural Networks</i> , 2009, 22, 237-246.	3.3	510
16	Optimal tracking control of nonlinear partially-unknown constrained-input systems using integral reinforcement learning. <i>Automatica</i> , 2014, 50, 1780-1792.	3.0	459
17	Cooperative Control of Multi-Agent Systems. <i>Communications and Control Engineering</i> , 2014, , .	1.0	446
18	Model-free Q-learning designs for linear discrete-time zero-sum games with application to H-infinity control. <i>Automatica</i> , 2007, 43, 473-481.	3.0	429

#	ARTICLE	IF	CITATIONS
19	Integral reinforcement learning and experience replay for adaptive optimal control of partially-unknown constrained-input continuous-time systems. <i>Automatica</i> , 2014, 50, 193-202.	3.0	412
20	Secondary control of microgrids based on distributed cooperative control of multi-agent systems. <i>IET Generation, Transmission and Distribution</i> , 2013, 7, 822-831.	1.4	408
21	Multi-agent differential graphical games: Online adaptive learning solution for synchronization with optimality. <i>Automatica</i> , 2012, 48, 1598-1611.	3.0	405
22	Reinforcement learning for optimal tracking control of linear discrete-time systems with unknown dynamics. <i>Automatica</i> , 2014, 50, 1167-1175.	3.0	395
23	Reinforcement Learning for Partially Observable Dynamic Processes: Adaptive Dynamic Programming Using Measured Output Data. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011, 41, 14-25.	5.5	391
24	Multi-player non-zero-sum games: Online adaptive learning solution of coupled Hamilton-Jacobi equations. <i>Automatica</i> , 2011, 47, 1556-1569.	3.0	390
25	$\lim_{H \rightarrow \infty}$ Tracking Control of Completely Unknown Continuous-Time Systems via Off-Policy Reinforcement Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 2550-2562.	7.2	384
26	Adaptive Optimal Control of Unknown Constrained-Input Systems Using Policy Iteration and Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013, 24, 1513-1525.	7.2	361
27	Control of a nonholomic mobile robot: Backstepping kinematics into dynamics. <i>Journal of Field Robotics</i> , 1997, 14, 149-163.	0.7	356
28	Linear Quadratic Tracking Control of Partially-Unknown Continuous-Time Systems Using Reinforcement Learning. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 3051-3056.	3.6	328
29	Backstepping Approach for Controlling a Quadrotor Using Lagrange Form Dynamics. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009, 56, 127-151.	2.0	315
30	The adaptive distributed observer approach to the cooperative output regulation of linear multi-agent systems. <i>Automatica</i> , 2017, 75, 299-305.	3.0	302
31	Cooperative adaptive control for synchronization of second-order systems with unknown nonlinearities. <i>International Journal of Robust and Nonlinear Control</i> , 2011, 21, 1509-1524.	2.1	265
32	Cooperative Optimal Control for Multi-Agent Systems on Directed Graph Topologies. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 769-774.	3.6	254
33	Actor-Critic-Based Optimal Tracking for Partially Unknown Nonlinear Discrete-Time Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 140-151.	7.2	251
34	Droop-Free Distributed Control for AC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2016, 31, 1600-1617.	5.4	248
35	Finite-time distributed consensus via binary control protocols. <i>Automatica</i> , 2011, 47, 1962-1968.	3.0	236
36	A Multiobjective Distributed Control Framework for Islanded AC Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2014, 10, 1785-1798.	7.2	214

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37	Multi-agent discrete-time graphical games and reinforcement learning solutions. Automatica, 2014, 50, 3038-3053.	3.0	206
38	On constructing Lyapunov functions for multi-agent systems. Automatica, 2015, 58, 39-42.	3.0	203
39	$H < \mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^n$ control of linear discrete-time systems: Off-policy reinforcement learning. Automatica, 2017, 78, 144-152.	3.0	196
40	Policy Iterations on the Hamilton-Jacobi-Isaacs Equation for $H_\infty$ State Feedback Control With Input Saturation. IEEE Transactions on Automatic Control, 2006, 51, 1989-1995.	3.6	186
41	Optimal Tracking Control of Unknown Discrete-Time Linear Systems Using Input-Output Measured Data. IEEE Transactions on Cybernetics, 2015, 45, 2770-2779.	6.2	186
42	Off-Policy Actor-Critic Structure for Optimal Control of Unknown Systems With Disturbances. IEEE Transactions on Cybernetics, 2016, 46, 1041-1050.	6.2	180
43	Distributed Finite-Time Voltage and Frequency Restoration in Islanded AC Microgrids. IEEE Transactions on Industrial Electronics, 2016, 63, 5988-5997.	5.2	176
44	Neurodynamic Programming and Zero-Sum Games for Constrained Control Systems. IEEE Transactions on Neural Networks, 2008, 19, 1243-1252.	4.8	169
45	Robust Formation Control for Multiple Quadrotors With Nonlinearities and Disturbances. IEEE Transactions on Cybernetics, 2020, 50, 1362-1371.	6.2	169
46	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.	7.2	168
47	A Distributed Auction-Based Algorithm for the Nonconvex Economic Dispatch Problem. IEEE Transactions on Industrial Informatics, 2014, 10, 1124-1132.	7.2	159
48	Discrete-Time Deterministic Q-Learning: A Novel Convergence Analysis. IEEE Transactions on Cybernetics, 2017, 47, 1224-1237.	6.2	159
49	Optimized Assistive Human-Robot Interaction Using Reinforcement Learning. IEEE Transactions on Cybernetics, 2016, 46, 655-667.	6.2	151
50	Policy Gradient Adaptive Dynamic Programming for Data-Based Optimal Control. IEEE Transactions on Cybernetics, 2017, 47, 3341-3354.	6.2	145
51	Off-Policy Reinforcement Learning for Synchronization in Multiagent Graphical Games. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2434-2445.	7.2	140
52	Reinforcement Learning-Based Adaptive Optimal Exponential Tracking Control of Linear Systems With Unknown Dynamics. IEEE Transactions on Automatic Control, 2019, 64, 4423-4438.	3.6	134
53	Neuro-adaptive cooperative tracking control of unknown higher-order affine nonlinear systems. Automatica, 2014, 50, 798-808.	3.0	133
54	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

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55	Optimal model-free output synchronization of heterogeneous systems using off-policy reinforcement learning. <i>Automatica</i> , 2016, 71, 334-341.	3.0	130
56	Leader-to-Formation Stability of Multiagent Systems: An Adaptive Optimal Control Approach. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 3581-3587.	3.6	126
57	Tool Wear Monitoring Using Acoustic Emissions by Dominant-Feature Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011, 60, 547-559.	2.4	125
58	Multi-agent zero-sum differential graphical games for disturbance rejection in distributed control. <i>Automatica</i> , 2016, 69, 24-34.	3.0	125
59	Output Containment Control of Linear Heterogeneous Multi-Agent Systems Using Internal Model Principle. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 2099-2109.	6.2	124
60	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Convergence Analysis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 875-891.	5.9	121
61	Distributed information-weighted Kalman consensus filter for sensor networks. <i>Automatica</i> , 2017, 77, 18-30.	3.0	117
62	Synchrony in Networked Microgrids Under Attacks. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 6731-6741.	6.2	117
63	Online adaptive algorithm for optimal control with integral reinforcement learning. <i>International Journal of Robust and Nonlinear Control</i> , 2014, 24, 2686-2710.	2.1	113
64	Data-Driven Flotation Industrial Process Operational Optimal Control Based on Reinforcement Learning. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 1974-1989.	7.2	112
65	Adaptive dynamic programming for online solution of a zero-sum differential game. <i>Journal of Control Theory and Applications</i> , 2011, 9, 353-360.	0.8	109
66	Optimal, Nonlinear, and Distributed Designs of Droop Controls for DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 2508-2516.	6.2	107
67	Output regulation of linear heterogeneous multi-agent systems via output and state feedback. <i>Automatica</i> , 2016, 67, 157-164.	3.0	106
68	Optimal Output-Feedback Control of Unknown Continuous-Time Linear Systems Using Off-policy Reinforcement Learning. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 2401-2410.	6.2	105
69	Necessary and Sufficient Conditions for H-Infinity Static Output-Feedback Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 915-920.	1.6	104
70	Distributed consensus tracking for nonlinear multi-agent systems with input saturation: a command filtered backstepping approach. <i>IET Control Theory and Applications</i> , 2016, 10, 509-516.	1.2	100
71	Resilient Cooperative Control of DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 1083-1085.	6.2	95
72	Off-Policy Interleaved $Q^*$ -Learning: Optimal Control for Affine Nonlinear Discrete-Time Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 1308-1320.	7.2	95

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73	H-Infinity Static Output-feedback Control for Rotorcraft. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 54, 629-646.	2.0	92
74	Consensus of heterogeneous first- and second-order multi-agent systems with directed communication topologies. International Journal of Robust and Nonlinear Control, 2015, 25, 362-375.	2.1	89
75	Optimal Synchronization of Heterogeneous Nonlinear Systems With Unknown Dynamics. IEEE Transactions on Automatic Control, 2018, 63, 117-131.	3.6	87
76	Fixed-Final-Time-Constrained Optimal Control of Nonlinear Systems Using Neural Network HJB Approach. IEEE Transactions on Neural Networks, 2007, 18, 1725-1737.	4.8	86
77	Tracking Control for Linear Discrete-Time Networked Control Systems With Unknown Dynamics and Dropout. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4607-4620.	7.2	86
78	Robust formation tracking control for multiple quadrotors under aggressive maneuvers. Automatica, 2019, 105, 179-185.	3.0	85
79	Intelligent Diagnosis and Prognosis of Tool Wear Using Dominant Feature Identification. IEEE Transactions on Industrial Informatics, 2009, 5, 454-464.	7.2	84
80	Time-Varying Output Formation Containment of General Linear Homogeneous and Heterogeneous Multiagent Systems. IEEE Transactions on Control of Network Systems, 2019, 6, 537-548.	2.4	83
81	Nash equilibrium seeking for $N$ -coalition noncooperative games. Automatica, 2018, 95, 266-272.	3.0	82
82	Adaptive Admittance Control for Human-Robot Interaction Using Model Reference Design and Adaptive Inverse Filtering. IEEE Transactions on Control Systems Technology, 2017, 25, 278-285.	3.2	80
83	Adaptive output containment control of heterogeneous multi-agent systems with unknown leaders. Automatica, 2018, 92, 235-239.	3.0	79
84	Optimal Output Regulation of Linear Discrete-Time Systems With Unknown Dynamics Using Reinforcement Learning. IEEE Transactions on Cybernetics, 2020, 50, 3147-3156.	6.2	78
85	Resilient and Robust Synchronization of Multiagent Systems Under Attacks on Sensors and Actuators. IEEE Transactions on Cybernetics, 2020, 50, 1240-1250.	6.2	78
86	Consensusability of Discrete-Time Dynamic Multiagent Systems. IEEE Transactions on Automatic Control, 2012, 57, 2085-2089.	3.6	76
87	Modular DC-DC Converters on Graphs: Cooperative Control. IEEE Transactions on Power Electronics, 2014, 29, 6725-6741.	5.4	76
88	Value iteration and adaptive optimal output regulation with assured convergence rate. Control Engineering Practice, 2022, 121, 105042.	3.2	76
89	Adaptive Suboptimal Output-Feedback Control for Linear Systems Using Integral Reinforcement Learning. IEEE Transactions on Control Systems Technology, 2015, 23, 264-273.	3.2	75
90	Robust adaptive trajectory tracking control of underactuated autonomous underwater vehicles with prescribed performance. International Journal of Robust and Nonlinear Control, 2019, 29, 4629-4643.	2.1	75

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91	Distributed Fault-Tolerant Control of Networked Uncertain Euler-Lagrange Systems Under Actuator Faults. IEEE Transactions on Cybernetics, 2017, 47, 1706-1718.	6.2	74
92	Second-order consensus for directed multi-agent systems with sampled data. International Journal of Robust and Nonlinear Control, 2014, 24, 2560-2573.	2.1	73
93	Discrete-Time Impulsive Adaptive Dynamic Programming. IEEE Transactions on Cybernetics, 2020, 50, 4293-4306.	6.2	73
94	Team-Oriented Load Sharing in Parallel DC-DC Converters. IEEE Transactions on Industry Applications, 2015, 51, 479-490.	3.3	72
95	Lagrange Stability and Finite-Time Stabilization of Fuzzy Memristive Neural Networks With Hybrid Time-Varying Delays. IEEE Transactions on Cybernetics, 2020, 50, 2959-2970.	6.2	72
96	Distributed gain output-feedback control of homogeneous and heterogeneous systems. Automatica, 2016, 71, 361-368.	3.0	68
97	Dual-Rate Operational Optimal Control for Flotation Industrial Process With Unknown Operational Model. IEEE Transactions on Industrial Electronics, 2019, 66, 4587-4599.	5.2	68
98	Exponential Stabilization of Fuzzy Memristive Neural Networks With Hybrid Unbounded Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 739-750.	7.2	67
99	Multistability of Delayed Hybrid Impulsive Neural Networks With Application to Associative Memories. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1537-1551.	7.2	66
100	Solutions for Multiagent Pursuit-Evasion Games on Communication Graphs: Finite-Time Capture and Asymptotic Behaviors. IEEE Transactions on Automatic Control, 2020, 65, 1911-1923.	3.6	64
101	Neuro-adaptive cooperative tracking control with prescribed performance of unknown higher-order nonlinear multi-agent systems. International Journal of Control, 2019, 92, 445-460.	1.2	62
102	A novel adaptive dynamic programming based on tracking error for nonlinear discrete-time systems. Automatica, 2021, 129, 109687.	3.0	61
103	Containment Control for Multiagent Systems Under Two Intermittent Control Schemes. IEEE Transactions on Automatic Control, 2019, 64, 1236-1243.	3.6	60
104	Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. IEEE Transactions on Smart Grid, 2020, 11, 3850-3859.	6.2	59
105	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.	5.9	58
106	Cooperative adaptive optimal output regulation of nonlinear discrete-time multi-agent systems. Automatica, 2020, 121, 109149.	3.0	58
107	Data-Based Multiobjective Plant-Wide Performance Optimization of Industrial Processes Under Dynamic Environments. IEEE Transactions on Industrial Informatics, 2016, 12, 454-465.	7.2	57
108	Off-Policy Reinforcement Learning: Optimal Operational Control for Two-Time-Scale Industrial Processes. IEEE Transactions on Cybernetics, 2017, 47, 4547-4558.	6.2	57

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109	Optimal Robust Output Containment of Unknown Heterogeneous Multiagent System Using Off-Policy Reinforcement Learning. IEEE Transactions on Cybernetics, 2018, 48, 3197-3207.	6.2	57
110	Neuro-Adaptive Distributed Control With Prescribed Performance for the Synchronization of Unknown Nonlinear Networked Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2135-2144.	5.9	57
111	Data-Driven Fault-Tolerant Control for Attitude Synchronization of Nonlinear Quadrotors. IEEE Transactions on Automatic Control, 2021, 66, 5584-5591.	3.6	57
112	A Unified Strategy for Solution Seeking in Graphical $\mathcal{N}$ -Coalition Noncooperative Games. IEEE Transactions on Automatic Control, 2019, 64, 4645-4652.	3.6	56
113	Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1215-1223.	5.9	56
114	Discrete-time dynamic graphical games: model-free reinforcement learning solution. Control Theory and Technology, 2015, 13, 55-69.	1.0	55
115	Fully Distributed Resilience for Adaptive Exponential Synchronization of Heterogeneous Multiagent Systems Against Actuator Faults. IEEE Transactions on Automatic Control, 2019, 64, 3347-3354.	3.6	55
116	Robust Formation Control for Cooperative Underactuated Quadrotors via Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4577-4587.	7.2	55
117	Resilient Networked AC Microgrids Under Unbounded Cyber Attacks. IEEE Transactions on Smart Grid, 2020, 11, 3785-3794.	6.2	53
118	A policy iteration approach to online optimal control of continuous-time constrained-input systems. ISA Transactions, 2013, 52, 611-621.	3.1	52
119	Output synchronization of heterogeneous discrete-time systems: A model-free optimal approach. Automatica, 2017, 84, 86-94.	3.0	50
120	Nonzero-Sum Game Reinforcement Learning for Performance Optimization in Large-Scale Industrial Processes. IEEE Transactions on Cybernetics, 2020, 50, 4132-4145.	6.2	50
121	Integral Reinforcement Learning for online computation of feedback Nash strategies of nonzero-sum differential games. , 2010, , .		49
122	Off-policy learning for adaptive optimal output synchronization of heterogeneous multi-agent systems. Automatica, 2020, 119, 109081.	3.0	49
123	Error-Tolerant Iterative Adaptive Dynamic Programming for Optimal Renewable Home Energy Scheduling and Battery Management. IEEE Transactions on Industrial Electronics, 2017, 64, 9527-9537.	5.2	47
124	Adaptive synchronisation of unknown nonlinear networked systems with prescribed performance. International Journal of Systems Science, 2017, 48, 885-898.	3.7	45
125	Adaptive Tracking Control of Cooperative Robot Manipulators With Markovian Switched Couplings. IEEE Transactions on Industrial Electronics, 2021, 68, 2427-2436.	5.2	45
126	Discrete-Time Non-Zero-Sum Games With Completely Unknown Dynamics. IEEE Transactions on Cybernetics, 2021, 51, 2929-2943.	6.2	45



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127	Cooperative containment of discrete-time linear multi-agent systems. International Journal of Robust and Nonlinear Control, 2015, 25, 1007-1018.	2.1	44
128	Actor-Critic Off-Policy Learning for Optimal Control of Multiple-Model Discrete-Time Systems. IEEE Transactions on Cybernetics, 2018, 48, 29-40.	6.2	44
129	Neural net robot controller: Structure and stability proofs. Journal of Intelligent and Robotic Systems: Theory and Applications, 1995, 12, 277-299.	2.0	42
130	Game-Theoretic Control of Active Loads in DC Microgrids. IEEE Transactions on Energy Conversion, 2016, 31, 882-895.	3.7	42
131	Operational Control of Mineral Grinding Processes Using Adaptive Dynamic Programming and Reference Governor. IEEE Transactions on Industrial Informatics, 2019, 15, 2210-2221.	7.2	42
132	Robust Formation Trajectory Tracking Control for Multiple Quadrotors With Communication Delays. IEEE Transactions on Control Systems Technology, 2020, 28, 2633-2640.	3.2	42
133	Adaptive optimal controllers based on Generalized Policy Iteration in a continuous-time framework. , 2009, , .		41
134	Cooperative control with distributed gain adaptation and connectivity estimation for directed networks. International Journal of Robust and Nonlinear Control, 2014, 24, 450-476.	2.1	41
135	Discrete-time nonlinear HJB solution using Approximate dynamic programming: Convergence Proof. , 2007, , .		40
136	Event-Based Time-Interval Pinning Control for Complex Networks on Time Scales and Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 8797-8808.	5.2	40
137	Distributed Noise-Resilient Networked Synchrony of Active Distribution Systems. IEEE Transactions on Smart Grid, 2018, 9, 836-846.	6.2	40
138	Leader-following control for multiple inertial agents. International Journal of Robust and Nonlinear Control, 2011, 21, 925-942.	2.1	39
139	Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. IEEE Transactions on Control of Network Systems, 2020, 7, 1319-1329.	2.4	38
140	An Optimal Primary Frequency Control Based on Adaptive Dynamic Programming for Islanded Modernized Microgrids. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1109-1121.	3.4	36
141	Adaptive Output Formation-Tracking of Heterogeneous Multi-Agent Systems Using Time-Varying $L_2$ -Gain Design. , 2018, 2, 236-241.		35
142	$H_\infty$ Tracking Control for Linear Discrete-Time Systems: Model-Free Q-Learning Designs. , 2021, 5, 175-180.		34
143	Adaptive Interleaved Reinforcement Learning: Robust Stability of Affine Nonlinear Systems With Unknown Uncertainty. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 270-280.	7.2	34
144	Adaptive fuzzy logic compensation of actuator deadzones. Journal of Field Robotics, 1997, 14, 501-511.	0.7	33

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145	Integrated Supervisory and Operational Control of a Warehouse With a Matrix-Based Approach. IEEE Transactions on Automation Science and Engineering, 2008, 5, 53-70.	3.4	33
146	Adaptive backstepping optimal control of a fractional-order chaotic magnetic-field electromechanical transducer. Nonlinear Dynamics, 2020, 100, 523-540.	2.7	33
147	Online policy iteration based algorithms to solve the continuous-time infinite horizon optimal control problem. , 2009, , .		32
148	Cooperative observers and regulators for discrete-time multiagent systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1545-1562.	2.1	32
149	New Methods for Optimal Operational Control of Industrial Processes Using Reinforcement Learning on Two Time Scales. IEEE Transactions on Industrial Informatics, 2020, 16, 3085-3099.	7.2	32
150	Robust Visual Servoing Control for Ground Target Tracking of Quadrotors. IEEE Transactions on Control Systems Technology, 2020, 28, 1980-1987.	3.2	32
151	BACKLASH COMPENSATION IN NONLINEAR SYSTEMS USING DYNAMIC INVERSION BY NEURAL NETWORKS. Asian Journal of Control, 2000, 2, 76-87.	1.9	31
152	Online actor critic algorithm to solve the continuous-time infinite horizon optimal control problem. , 2009, , .		31
153	Classification of energy consumption patterns for energy audit and machine scheduling in industrial manufacturing systems. Transactions of the Institute of Measurement and Control, 2013, 35, 583-592.	1.1	31
154	Intent aware adaptive admittance control for physical Human-Robot Interaction. , 2015, , .		31
155	Robust formation flying control for a team of satellites subject to nonlinearities and uncertainties. Aerospace Science and Technology, 2019, 95, 105455.	2.5	31
156	Adaptive Compensation for Nonlinear Time-Varying Multiagent Systems With Actuator Failures and Unknown Control Directions. IEEE Transactions on Cybernetics, 2019, 49, 1780-1790.	6.2	31
157	Inverse Reinforcement Learning in Tracking Control Based on Inverse Optimal Control. IEEE Transactions on Cybernetics, 2022, 52, 10570-10581.	6.2	31
158	Adaptive Asymptotic Neural Network Control of Nonlinear Systems With Unknown Actuator Quantization. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6303-6312.	7.2	30
159	Output feedback $H_{\infty}$ quadratic tracking control of linear systems using reinforcement learning. International Journal of Adaptive Control and Signal Processing, 2019, 33, 300-314.	2.3	30
160	Robust Fault-Tolerant Formation Control for Tail-Sitters in Aggressive Flight Mode Transitions. IEEE Transactions on Industrial Informatics, 2020, 16, 299-308.	7.2	30
161	Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4033-4042.	5.9	30
162	Adaptive Optimal Control for Stochastic Multiplayer Differential Games Using On-Policy and Off-Policy Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5522-5533.	7.2	30

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163	Accelerated Adaptive Fuzzy Optimal Control of Three Coupled Fractional-Order Chaotic Electromechanical Transducers. IEEE Transactions on Fuzzy Systems, 2021, 29, 1701-1714.	6.5	30
164	A Neural Net Predictive Control for Telerobots with Time Delay. Journal of Intelligent and Robotic Systems: Theory and Applications, 2000, 29, 1-25.	2.0	29
165	Stability and Stabilization of Takagi-Sugeno Fuzzy Systems With Hybrid Time-Varying Delays. IEEE Transactions on Fuzzy Systems, 2019, 27, 2067-2078.	6.5	29
166	Robust Tracking Control for Tail-Sitters in Flight Mode Transitions. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2023-2035.	2.6	28
167	Dynamic Multiobjective Control for Continuous-Time Systems Using Reinforcement Learning. IEEE Transactions on Automatic Control, 2019, 64, 2869-2874.	3.6	28
168	Model-Free Online Neuroadaptive Controller With Intent Estimation for Physical Human-Robot Interaction. IEEE Transactions on Robotics, 2020, 36, 240-253.	7.3	28
169	Robust consensus of multiple inertial agents with coupling delays and variable topologies. International Journal of Robust and Nonlinear Control, 2011, 21, 666-685.	2.1	27
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