Bo Zhao

List of Publications by Year
in descending order

79 papers	1,525 citations

394421

19 h-index	

315739

38 g-index	

79 all docs	79 docs citations	79 times ranked	643 citing authors

#	Article	IF	Citations
1	Adaptive Dynamic Programming for Control: A Survey and Recent Advances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 142-160.	9.3	280
2	Event-Triggered Decentralized Tracking Control of Modular Reconfigurable Robots Through Adaptive Dynamic Programming. IEEE Transactions on Industrial Electronics, 2020, 67, 3054-3064.	7.9	130
3	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.	9.3	129
4	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.	11.3	100
5	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.	13.1	97
6	Observer based adaptive dynamic programming for fault tolerant control of a class of nonlinear systems. Information Sciences, 2017, 384, 21-33.	6.9	83
7	Local joint information based active fault tolerant control for reconfigurable manipulator. Nonlinear Dynamics, 2014, 77, 859-876.	5.2	50
8	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.	2.1	48
9	Sliding-Mode Surface-Based Approximate Optimal Control for Uncertain Nonlinear Systems With Asymptotically Stable Critic Structure. IEEE Transactions on Cybernetics, 2021, 51, 2858-2869.	9.5	48
10	Model-free Adaptive Dynamic Programming Based Near-optimal Decentralized Tracking Control of Reconfigurable Manipulators. International Journal of Control, Automation and Systems, 2018, 16, 478-490.	2.7	43
11	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.	9.3	42
12	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.	5.5	41
13	Deterministic policy gradient adaptive dynamic programming for model-free optimal control. Neurocomputing, 2020, 387, 40-50.	5.9	38
14	Adaptive dynamic programming-based stabilization of nonlinear systems with unknown actuator saturation. Nonlinear Dynamics, 2018, 93, 2089-2103.	5.2	34
15	Self-tuned local feedback gain based decentralized fault tolerant control for a class of large-scale nonlinear systems. Neurocomputing, 2017, 235, 147-156.	5.9	31
16	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.	9.3	28
17	Particle swarm optimized neural networks based local tracking control scheme of unknown nonlinear interconnected systems. Neural Networks, 2021, 134, 54-63.	5.9	27
18	Adaptive near‐optimal controllers for non‐linear decentralised feedback stabilisation problems. IET Control Theory and Applications, 2017, 11, 799-806.	2.1	26

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19	Fault tolerant tracking control for nonlinear systems with actuator failures through particle swarm optimization-based adaptive dynamic programming. Applied Soft Computing Journal, 2020, 97, 106766.	7.2	20
20	Sparse online kernelized actor-critic Learning in reproducing kernel Hilbert space. Artificial Intelligence Review, 2022, 55, 23-58.	15.7	19
21	Adaptive Dynamic Programming-Based Cooperative Motion/Force Control for Modular Reconfigurable Manipulators: A Joint Task Assignment Approach. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10944-10954.	11.3	19
22	Observer-based event-triggered control for zero-sum games of input constrained multi-player nonlinear systems. Neural Networks, 2021, 144, 101-112.	5.9	18
23	An echo state network based approach to room classification of officeÂbuildings. Neurocomputing, 2019, 333, 319-328.	5.9	15
24	Event-triggered control for input constrained non-affine nonlinear systems based on neuro-dynamic programming. Neurocomputing, 2021, 440, 175-184.	5.9	15
25	Adaptive Dynamic Programming-Based Event-Triggered Robust Control for Multiplayer Nonzero-Sum Games With Unknown Dynamics. IEEE Transactions on Cybernetics, 2023, 53, 5151-5164.	9.5	15
26	Eventâ€triggered decentralized optimal fault tolerant control for mismatched interconnected nonlinear systems through adaptive dynamic programming. Optimal Control Applications and Methods, 2021, 42, 1365-1384.	2.1	13
27	Optimal control for discreteâ€time systems with actuator saturation. Optimal Control Applications and Methods, 2017, 38, 1071-1080.	2.1	12
28	Asymptotically stable critic designs for approximate optimal stabilization of nonlinear systems subject to mismatched external disturbances. Neurocomputing, 2020, 396, 201-208.	5.9	11
29	Decentralized Sliding Mode Observer Based Dual Closed-Loop Fault Tolerant Control for Reconfigurable Manipulator against Actuator Failure. PLoS ONE, 2015, 10, e0129315.	2.5	10
30	Fault tolerant control for reconfigurable manipulators based on adaptive dynamic programming with an improved performance index function. , 2016, , .		9
31	Adaptive dynamic programming-based decentralised control for large-scale nonlinear systems subject to mismatched interconnections with unknown time-delay. International Journal of Systems Science, 2020, 51, 2883-2898.	5.5	9
32	Event-triggered adaptive dynamic programming for multi-player zero-sum games with unknown dynamics. Soft Computing, 2021, 25, 2237-2251.	3.6	9
33	Eventâ€triggered optimal tracking control of multiplayer unknown nonlinear systems via adaptive critic designs. International Journal of Robust and Nonlinear Control, 2022, 32, 29-51.	3.7	9
34	DMPP: Differentiable multi-pruner and predictor for neural network pruning. Neural Networks, 2022, 147, 103-112.	5.9	8
35	Multiple Faults Detection and Isolation via Decentralized Sliding Mode Observer for Reconfigurable Manipulator. Journal of Electrical Engineering and Technology, 2015, 10, 2393-2405.	2.0	6
36	Adaptive Fuzzy Sliding Mode Control for the Probe Soft Landing on the Asteroids with Weak Gravitational Field. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	5

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37	Decentralized adaptive neural network sliding mode position/force control of constrained reconfigurable manipulators. Journal of Central South University, 2016, 23, 2917-2925.	3.0	5
38	Non-blind Image Deblurring from a Single Image. Cognitive Computation, 2013, 5, 3-12.	5.2	4
39	Optimal tracking control for reconfigurable manipulators based on critic-only policy iteration algorithm. , 2017, , .		3
40	Fault Tolerant Control for Nonlinear Systems Based on Adaptive Dynamic Programming with Particle Swarm Optimization. , 2019, , .		3
41	Observer-based Event-triggered Robust Control for Input Constrained Uncertain Nonlinear Systems. , 2021, , .		2
42	Observer-Based H Tracking Control Scheme and Its Application to Robot Arms. IFAC-PapersOnLine, 2020, 53, 536-541.	0.9	2
43	A Computationally Inexpensive Optimal Guidance via Radial-Basis-Function Neural Network for Autonomous Soft Landing on Asteroids. PLoS ONE, 2015, 10, e0137792.	2.5	1
44	Robust Linear Quadratic Regulator via Sliding Mode Guidance for Spacecraft Orbiting a Tumbling Asteroid. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	1
45	Asteroid landing via onboard optimal guidance based on bidirectional extreme learning machine. , 2016, , .		1
46	Decentralized adaptive neural network sliding mode control for reconfigurable manipulators with data-based modeling. , 2016, , .		1
47	Adaptive dynamic programming based decentralized tracking control for unknown large-scale systems. , 2017, , .		1
48	Approximate Optimal Sliding Mode Tracking Control for Modular Reconfigurable Robots Based on Critic-only Structure. IFAC-PapersOnLine, 2020, 53, 554-559.	0.9	1
49	Model-Free Control of Time-Delay Systems via Policy Gradient Based Adaptive Learning Algorithm. , 2020, , .		1
50	Boosting and Residual Learning Scheme with Pseudoinverse Learners. , 2020, , .		1
51	Guest Editorial on â€œComputational intelligence in analysis and integration of complex systemsâ€. Complex & Intelligent Systems, 0, , .	6.5	1
52	A novel image deblurring method based on high-order MRF prior. , 2011, , .		0
53	Neural Network Control for the Probe Landing Based on Proportional Integral Observer. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	0
54	Observer based policy iteration algorithm for fault tolerant control of nonlinear systems with actuator faults. , 2016, , .		0

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55	Data-based robust near-optimal decentralized stabilization of unknown large-scale systems. , 2017, , .		0
56	Seasonal Scheduling of Office Electricity Use via Adaptive Dynamic Programming. , 2018, , .		0
57	Local Tracking Control for Unknown Interconnected Systems via Neuro-Dynamic Programming. Lecture Notes in Computer Science, 2018, , 258-268.	1.3	0
58	Self-learning optimal control for uncertain nonlinear systems via online updated cost function. , 2018, , .		0
59	Critic-Identifier Structure ADP Based Near-optimal Decentralized Tracking Control of Modular and Reconfigurable Robots. , 2019, , .		0
60	Data-based Optimal Control for Discrete-time Systems via Deep Deterministic Policy Gradient Adaptive Dynamic Programming. , 2019, , .		0
61	A Combined Policy Gradient and Q-learning Method for Data-driven Optimal Control Problems. , 2019, , .		0
62	Optimal and Stable Control for Two-Player Zero-Sum Game Using Adaptive Dynamic Programming. , 2019, , .		0
63	Distributed Adaptive Dynamic Programming Algorithm for Office Energy Control with Multiple Batteries. , 2019, , .		0
64	Neuro-Control for Continuous-Time Stochastic Nonlinear Systems via Online Policy Iteration Algorithm. , 2020, , .		0
65	Observer Based Event-triggered Fault Compensation Control for Nonlinear Systems via Adaptive Dynamic Programming. , 2020, , .		0
66	Decentralized Tracking Control for Modular Reconfigurable Robots Using Data-Based Concurrent Learning. , 2021, , .		0
67	Self-tuned Local Feedback Gain Based Decentralized Fault Tolerant Control of Reconfigurable Manipulators. Proceedings of International Conference on Artificial Life and Robotics, 2016, 21, 302-306.	0.1	0
68	Neuro-control of Nonlinear Systems with Unknown Input Constraints. Lecture Notes in Computer Science, 2017, , 778-788.	1.3	0
69	Local Near-Optimal Control for Interconnected Systems with Time-Varying Delays. Lecture Notes in Computer Science, 2019, , 458-468.	1.3	0
70	Observer-based Adaptive Controller Design for Nonlinear Saturation Systems With Output Constraints. IFAC-PapersOnLine, 2020, 53, 675-680.	0.9	0
71	Approximate Optimal Control of Nonlinear Systems with Mismatched Perturbations Based on Asymptotically Stable Critic Neural Network. , 2020, , .		0
72	Generalized Policy Iteration-based Reinforcement Learning Algorithm for Optimal Control of Unknown Discrete-time Systems. , 2021, , .		0

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73	Event-Triggered Control of Multi-Player Zero-Sum Games via Adaptive Dynamic Programming. , 2021, , .		0
74	Fault Tolerant Tracking Control Through Particle Swarm Optimization Based Policy Iteration. , 2020, , .		0
75	Observer-Based Event-Triggered Tracking Control of Multi-Player Nonlinear Systems via Adaptive Dynamic Programming. , 2021, , .		0
76	Kernel-Based Autoencoders for Large-Scale Representation Learning. , 2021, , .		0
77	Event-Triggered Robust Control for Uncertain Nonlinear Systems with Input Constraints. , 2021, , .		0
78	Integral Reinforcement Learning-Based Optimal Control for Nonzero-Sum Games of Multi-Player Input-Constrained Nonlinear Systems. , 2021, , .		0
79	Event-triggered Control for Zero-sum Games Based on Critic-identifier Architecture with Particle Swarm Optimization. , 2021, , .		0