Hamidreza Modares

List of Publications by Year
in descending order

46 papers	3,019 citations	361413 20 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1721 citing authors

#	Article	IF	Citations
1	Event-Driven Off-Policy Reinforcement Learning for Control of Interconnected Systems. IEEE Transactions on Cybernetics, 2022, 52, 1936-1946.	9.5	21
2	H_{â^ž} Consensus of Homogeneous Vehicular Platooning Systems With Packet Dropout and Communication Delay. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3680-3691.	9.3	22
3	Data-Driven Dynamic Multiobjective Optimal Control: An Aspiration-Satisfying Reinforcement Learning Approach. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6183-6193.	11.3	8
4	Robust Inverse Optimal Cooperative Control for Uncertain Linear Multiagent Systems. IEEE Systems Journal, 2022, 16, 2355-2366.	4.6	4
5	Robust Actorâ€“Critic Learning for Continuous-Time Nonlinear Systems With Unmodeled Dynamics. IEEE Transactions on Fuzzy Systems, 2022, 30, 2101-2112.	9.8	83
6	Conflict-Aware Safe Reinforcement Learning: A Meta-Cognitive Learning Framework. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 466-481.	13.1	7
7	Fully Heterogeneous Containment Control of a Network of Leaderâ€“Follower Systems. IEEE Transactions on Automatic Control, 2022, 67, 6187-6194.	5.7	4
8	Distributed Consensus Control of Vehicular Platooning Under Delay, Packet Dropout and Noise: Relative State and Relative Input-Output Control Strategies. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20123-20133.	8.0	7
9	Finite-Time Distributed Identification for Nonlinear Interconnected Systems. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1188-1199.	13.1	4
10	Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6423-6434.	9.3	60
11	Eventâ€triggered control of inputâ€affine nonlinear interconnected systems using multiplayer game. International Journal of Robust and Nonlinear Control, 2021, 31, 950-970.	3.7	5
12	Assured learningâ€enabled autonomy: A metacognitive reinforcement learning framework. International Journal of Adaptive Control and Signal Processing, 2021, 35, 2348-2371.	4.1	2
13	Finiteâ€time adaptive output synchronization of uncertain nonlinear heterogeneous multiâ€agent systems. International Journal of Robust and Nonlinear Control, 2021, 31, 9416-9435.	3.7	7
14	Hamiltonianâ€driven adaptive dynamic programming for mixed H₂/H_{â^ž} performance using sumâ€ofâ€squares. International Journal of Robust and Nonlinear Control, 2021, 31, 1941-1963.	3.7	15
15	Resilient and Robust Synchronization of Multiagent Systems Under Attacks on Sensors and Actuators. IEEE Transactions on Cybernetics, 2020, 50, 1240-1250.	9.5	78
16	Safe reinforcement learning for dynamical games. International Journal of Robust and Nonlinear Control, 2020, 30, 3706-3726.	3.7	64
17	Resilient synchronization of distributed multi-agent systems under attacks. Automatica, 2020, 115, 108869.	5.0	36
18	Safe Intermittent Reinforcement Learning With Static and Dynamic Event Generators. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5441-5455.	11.3	56

#	Article	IF	Citations
19	Attack Analysis and Resilient Control Design for Discrete-Time Distributed Multi-Agent Systems. IEEE Robotics and Automation Letters, 2020, 5, 369-376.	5.1	53
20	Data-driven dynamic multi-objective optimal control: A Hamiltonian-inequality driven satisficing reinforcement learning approach. IFAC-PapersOnLine, 2020, 53, 8070-8075.	0.9	0
21	Data-Driven Integral Reinforcement Learning for Continuous-Time Non-Zero-Sum Games. IEEE Access, 2019, 7, 82901-82912.	4.2	12
22	Dynamic intermittent Qâ€learningâ€“based modelâ€free suboptimal coâ€design of â€stabilization. International Journal of Robust and Nonlinear Control, 2019, 29, 2673-2694.	3.7	34
23	Heterogeneous Formation Control of Multiple Rotorcrafts with Unknown Dynamics using Reinforcement Learning*. , 2019, , .		1
24	Safe Intermittent Reinforcement Learning for Nonlinear Systems. , 2019, , .		5
25	Attack Analysis for Discrete-time Distributed Multi-Agent Systems. , 2019, , .		2
26	Safety-Aware Reinforcement Learning Framework with an Actor-Critic-Barrier Structure. , 2019, , .		28
27	Observerâ€based adaptive optimal output containment control problem of linear heterogeneous Multiagent systems with relative output measurements. International Journal of Adaptive Control and Signal Processing, 2019, 33, 262-284.	4.1	14
28	Resilient adaptive and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e270" altimg="si8.gif"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></mml:mrow></mml:msub></mm controls of multi-agent systems under sensor and actuator faults. Automatica, 2019, 102, 19-26.	5.0	131
29	Resilient Cooperative Control of DC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 1083-1085.	9.0	95
30	Optimal and Autonomous Control Using Reinforcement Learning: A Survey. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2042-2062.	11.3	512
31	Analysis and Detection of Cyber-physical Attacks in Distributed Sensor Networks. , 2018, , .		3
32	Dynamic Intermittent Q-Learning for Systems with Reduced Bandwidth. , 2018, , .		1
33	Resilient adaptive optimal control of distributed multiâ€agent systems using reinforcement learning. IET Control Theory and Applications, 2018, 12, 2165-2174.	2.1	14
34	Optimal Output-Feedback Control of Unknown Continuous-Time Linear Systems Using Off-policy Reinforcement Learning. IEEE Transactions on Cybernetics, 2016, 46, 2401-2410.	9.5	105
35	Optimal model-free output synchronization of heterogeneous systems using off-policy reinforcement learning. Automatica, 2016, 71, 334-341.	5.0	130
36	Distributed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>-gain output-feedback control of homogeneous and heterogeneous systems. Automatica, 2016, 71, 361-368.	5.0	68

#	Article	IF	Citations
37	Online concurrent reinforcement learning algorithm to solve twoâ€player zeroâ€sum games for partially unknown nonlinear continuousâ€time systems. International Journal of Adaptive Control and Signal Processing, 2015, 29, 473-493.	4.1	20
38	<inline-formula> <tex-math notation="LaTeX">$ {H}_{ {infty }}$ </tex-math></inline-formula> Tracking Control of Completely Unknown Continuous-Time Systems via Off-Policy Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2550-2562.	11.3	384
39	Disturbance rejection of multi-agent systems: A reinforcement learning differential game approach. , 2015, , .		1
40	Online solution of nonquadratic twoâ€player zeroâ€sum games arising in the H_{â€‰â€žâ€‰} control of constrained input systems. International Journal of Adaptive Control and Signal Processing, 2014, 28, 232-254.	4.1	94
41	Reinforcement -learning for optimal tracking control of linear discrete-time systems with unknown dynamics. Automatica, 2014, 50, 1167-1175.	5.0	395
42	A policy iteration approach to online optimal control of continuous-time constrained-input systems. ISA Transactions, 2013, 52, 611-621.	5.7	52
43	Adaptive Optimal Control of Unknown Constrained-Input Systems Using Policy Iteration and Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1513-1525.	11.3	361
44	Employing Adaptive Particle Swarm Optimization Algorithm for Parameter Estimation of an Exciter Machine. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	16
45	A general insight into the effect of neuron structure on classification. Knowledge and Information Systems, 2012, 30, 135-154.	3.2	5
46	Finiteâ€time disturbance rejection for nonlinear systems using an adaptive disturbance observer based on experienceâ€replay. International Journal of Adaptive Control and Signal Processing, 0, , .	4.1	0