Rushikesh Kamalapurkar

List of Publications by Year
in descending order

73 papers	2,376 citations	331670 21 h-index	361022 35 g-index
75 all docs	75 docs citations	75 times ranked	1301 citing authors

#	Article	IF	Citations
1	A novel actor–critic–identifier architecture for approximate optimal control of uncertain nonlinear systems. Automatica, 2013, 49, 82-92.	5.0	439
2	Approximate optimal trajectory tracking for continuous-time nonlinear systems. Automatica, 2015, 51, 40-48.	5.0	168
3	LaSalle-Yoshizawa Corollaries for Nonsmooth Systems. IEEE Transactions on Automatic Control, 2013, 58, 2333-2338.	5.7	165
4	Model-based reinforcement learning for approximate optimal regulation. Automatica, 2016, 64, 94-104.	5.0	158
5	Concurrent Learning for Parameter Estimation Using Dynamic State-Derivative Estimators. IEEE Transactions on Automatic Control, 2017, 62, 3594-3601.	5.7	117
6	Model-Based Reinforcement Learning for Infinite-Horizon Approximate Optimal Tracking. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 753-758.	11.3	96
7	Time-Varying Input and State Delay Compensation for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2016, 61, 834-839.	5.7	92
8	Integral concurrent learning: Adaptive control with parameter convergence using finite excitation. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1775-1787.	4.1	91
9	Unknown time-varying input delay compensation for uncertain nonlinear systems. Automatica, 2017, 76, 222-229.	5.0	88
10	Reinforcement Learning for Optimal Feedback Control. Communications and Control Engineering, 2018, , .	1.6	87
11	Saturated RISE Feedback Control for a Class of Second-Order Nonlinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1094-1099.	5.7	79
12	Efficient model-based reinforcement learning for approximate online optimal control. Automatica, 2016, 74, 247-258.	5.0	71
13	Approximate <inline-formula> <tex-math notation="LaTeX">N </tex-math></inline-formula>-Player Nonzero-Sum Game Solution for an Uncertain Continuous Nonlinear System. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1645-1658.	11.3	69
14	Concurrent learning-based approximate feedback-Nash equilibrium solution of N-player nonzero-sum differential games. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 239-247.	13.1	66
15	Model-Based Reinforcement Learning in Differential Graphical Games. IEEE Transactions on Control of Network Systems, 2018, 5, 423-433.	3.7	41
16	Dynamic neural network-based robust observers for uncertain nonlinear systems. Neural Networks, 2014, 60, 44-52.	5.9	36
17	Invariance-Like Results for Nonautonomous Switched Systems. IEEE Transactions on Automatic Control, 2019, 64, 614-627.	5.7	30
18	Robust Identification-Based State Derivative Estimation for Nonlinear Systems. IEEE Transactions on Automatic Control, 2013, 58, 187-192.	5.7	28

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19	Target Tracking in the Presence of Intermittent Measurements via Motion Model Learning. IEEE Transactions on Robotics, 2018, 34, 805-819.	10.3	25
20	Approximate Dynamic Programming: Combining Regional and Local State Following Approximations. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2154-2166.	11.3	23
21	Online Approximate Optimal Station Keeping of a Marine Craft in the Presence of an Irrotational Current. IEEE Transactions on Robotics, 2018, 34, 486-496.	10.3	22
22	Lyapunov-based control of an uncertain Euler-Lagrange system with time-varying input delay. , 2012, , .		21
23	Concurrent learning-based approximate optimal regulation. , 2013, , .		21
24	Simultaneous state and parameter estimation for second-order nonlinear systems. , 2017, , .		17
25	Linear inverse reinforcement learning in continuous time and space. , 2018, , .		17
26	Approximate optimal cooperative decentralized control for consensus in a topological network of agents with uncertain nonlinear dynamics. , 2013, , .		16
27	Online Observer-Based Inverse Reinforcement Learning. , 2021, 5, 1922-1927.		16
28	Online inverse reinforcement learning for systems with disturbances. , 2020, , .		15
29	Model-based inverse reinforcement learning for deterministic systems. Automatica, 2022, 140, 110242.	5.0	14
30	Identification-Based Closed-Loop NMES Limb Tracking With Amplitude-Modulated Control Input. IEEE Transactions on Cybernetics, 2016, 46, 1679-1690.	9.5	13
31	Homography based visual servo control with scene reconstruction. , 2015, , .		12
32	The State Following Approximation Method. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1716-1730.	11.3	12
33	Model-based reinforcement learning for infinite-horizon approximate optimal tracking. , 2014, , .		11
34	Output feedback control for uncertain nonlinear systems with slowly varying input delay. , 2013, , .		10
35	State following (StaF) kernel functions for function approximation part II: Adaptive dynamic programming. , 2015, , .		10
36	Dynamic Neural Network-Based Output Feedback Tracking Control for Uncertain Nonlinear Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	10

#	Article	IF	Citations
37	Online inverse reinforcement learning for nonlinear systems. , 2019, , .		10
38	Dynamic Mode Decomposition with Control Liouville Operators. IFAC-PapersOnLine, 2021, 54, 707-712.	0.9	10
39	Online approximate optimal path-following for a mobile robot. , 2014, , .		9
40	Online output-feedback parameter and state estimation for second order linear systems. , 2017, , .		9
41	Full- and Reduced-Order Observers for Image-Based Depth Estimation Using Concurrent Learning. IEEE Transactions on Control Systems Technology, 2021, 29, 2647-2653.	5.2	9
42	Dynamic Mode Decomposition for Continuous Time Systems with the Liouville Operator. Journal of Nonlinear Science, 2022, 32, 1.	2.1	9
43	State following (StaF) kernel functions for function approximation Part I: Theory and motivation. , 2015, , .		8
44	Minimizing wastage of sheet metal for economical manufacturing. Journal of Materials Processing Technology, 2006, 177, 81-83.	6.3	7
45	Approximate optimal online continuous-time path-planner with static obstacle avoidance. , 2015, , .		7
46	A Safety Aware Model-Based Reinforcement Learning Framework for Systems with Uncertainties. , 2021, , .		7
47	RISE-based control of an uncertain nonlinear system with time-varying state delays. , 2012, , .		6
48	Concurrent learning-based network synchronization. , 2014, , .		6
49	On reduction of differential inclusions and Lyapunov stability. , 2017, , .		6
50	Occupation Kernels and Densely Defined Liouville Operators for System Identification. , 2019, , .		6
51	Observer Design for Structure from Motion using Concurrent Learning. , 2019, , .		6
52	On reduction of differential inclusions and Lyapunov stability. ESAIM - Control, Optimisation and Calculus of Variations, 2020, 26, 24.	1.3	6
53	Dynamic neural network-based robust observers for second-order uncertain nonlinear systems. , 2011, , .		5
54	Cooperative Manipulation of an Unknown Payload With Concurrent Mass and Drag Force Estimation. , 2019, 3, 907-912.		5

#	Article	IF	Citations
55	Model-based reinforcement learning for on-line feedback-Nash equilibrium solution of N-player nonzero-sum differential games. , 2014, , .		4
56	Compensating for Fatigue-Induced Time-Varying Delayed Muscle Response in Neuromuscular Electrical Stimulation Control. Advances in Delays and Dynamics, 2016, , 143-161.	0.4	4
57	Online inverse reinforcement learning with limited data. , 2020, , .		4
58	Adaptive RISE Feedback Control Strategies for Systems with Structured and Unstructured Uncertainties. , 2013, , .		3
59	Model-Based Reinforcement Learning for Approximate Optimal Control. Communications and Control Engineering, 2018, , 99-148.	1.6	3
60	Reduced Order Observer for Structure from Motion using Concurrent Learning. , 2019, , .		3
61	Model-based reinforcement learning for output-feedback optimal control of a class of nonlinear systems. , 2019, , .		3
62	Safe Model-Based Reinforcement Learning for Systems With Parametric Uncertainties. Frontiers in Robotics and AI, 2021, 8, 733104.	3.2	3
63	Differential Graphical Games. Communications and Control Engineering, 2018, , 149-193.	1.6	2
64	Adaptive dynamic programming for terminally constrained finite-horizon optimal control problems. , 2014, , .		1
65	Decentralized monitoring of leader-follower networks of uncertain nonlinear systems. , 2015, , .		1
66	Mixed Density Methods for Approximate Dynamic Programming. Studies in Systems, Decision and Control, 2021, , 139-172.	1.0	1
67	Online Observer-Based Inverse Reinforcement Learning. , 2021, , .		1
68	Data-Based Learning for Uncertain Robotic Systems. , 2016, , 40-48.		1
69	Hybrid Electrical Stimulation Tracking Control of the Ankle. , 2012, , .		0
70	Approximate Dynamic Programming. Communications and Control Engineering, 2018, , 17-42.	1.6	0
71	Excitation-Based Online Approximate Optimal Control. Communications and Control Engineering, 2018, , 43-98.	1.6	0
72	Computational Considerations. Communications and Control Engineering, 2018, , 227-263.	1.6	0

#	ARTICLE	IF	CITATIONS
73	Switched Optimal Control and Dwell Time Constraints: A Preliminary Study. , 2020, , .		0