

Lucian Busoniu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

2,332
citations

15
h-index

48
g-index

85
ext. papers

3,110
ext. citations

3.1
avg. IF

5.14
L-index

#	Paper	IF	Citations
76	A Comprehensive Survey of Multiagent Reinforcement Learning. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2008 , 38, 156-172		851
75	A Survey of Actor-Critic Reinforcement Learning: Standard and Natural Policy Gradients. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 1291-1307		315
74	Reinforcement Learning and Dynamic Programming Using Function Approximators		220
73	Multi-agent Reinforcement Learning: An Overview. <i>Studies in Computational Intelligence</i> , 2010 , 183-221	0.8	135
72	Experience Replay for Real-Time Reinforcement Learning Control. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 201-212		107
71	Vision and Control for UAVs: A Survey of General Methods and of Inexpensive Platforms for Infrastructure Inspection. <i>Sensors</i> , 2015 , 15, 14887-916	3.8	105
70	Reinforcement learning for control: Performance, stability, and deep approximators. <i>Annual Reviews in Control</i> , 2018 , 46, 8-28	10.3	100
69	Efficient model learning methods for actor-critic control. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 591-602		76
68	Stability Analysis of Discrete-Time Infinite-Horizon Optimal Control With Discounted Cost. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2736-2749	5.9	45
67	Cross-entropy optimization of control policies with adaptive basis functions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 196-209		44
66	Approximate dynamic programming with a fuzzy parameterization. <i>Automatica</i> , 2010 , 46, 804-814	5.7	41
65	Multi-Agent Reinforcement Learning: A Survey 2006 ,		38
64	Online least-squares policy iteration for reinforcement learning control 2010 ,		21
63	Approximate reinforcement learning: An overview 2011 ,		18
62	Model learning actor-critic algorithms: Performance evaluation in a motion control task 2012 ,		18
61	Decentralized Reinforcement Learning Control of a Robotic Manipulator 2006 ,		15
60	Vision-based control of a quadrotor for an object inspection scenario 2016 ,		15

59	Consensus for black-box nonlinear agents using optimistic optimization. <i>Automatica</i> , 2014 , 50, 1201-1208	0.7	13
58	Continuous-State Reinforcement Learning with Fuzzy Approximation. <i>Lecture Notes in Computer Science</i> , 2008 , 27-43	0.9	10
57	Control delay in Reinforcement Learning for real-time dynamic systems: A memoryless approach 2010 ,		9
56	Fall monitoring and detection for at-risk persons using a UAV. <i>IFAC-PapersOnLine</i> , 2018 , 51, 199-204	0.7	9
55	. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2124-2139	5.9	7
54	Railway track following with the AR.Drone using vanishing point detection 2014 ,		7
53	Approximate Dynamic Programming and Reinforcement Learning. <i>Studies in Computational Intelligence</i> , 2010 , 3-44	0.8	7
52	Finite-Horizon Discounted Optimal Control: Stability and Performance. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 550-565	5.9	7
51	Planning for optimal control and performance certification in nonlinear systems with controlled or uncontrolled switches. <i>Automatica</i> , 2017 , 78, 297-308	5.7	6
50	Data-Efficient Reinforcement Learning for Energy Optimization of Power-Assisted Wheelchairs. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9734-9744	8.9	6
49	Least-Squares Methods for Policy Iteration. <i>Adaptation, Learning, and Optimization</i> , 2012 , 75-109	0.7	6
48	Optimistic planning for continuous-action deterministic systems 2013 ,		6
47	Continuous-action planning for discounted infinite-horizon nonlinear optimal control with Lipschitz values. <i>Automatica</i> , 2018 , 92, 100-108	5.7	5
46	Using prior knowledge to accelerate online least-squares policy iteration 2010 ,		5
45	Optimistic planning for sparsely stochastic systems 2011 ,		5
44	Policy search with cross-entropy optimization of basis functions 2009 ,		5
43	Machine Learning with Applications to Autonomous Systems. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-2	1.1	4
42	An analysis of optimistic, best-first search for minimax sequential decision making 2014 ,		4

41	Fuzzy Partition Optimization for Approximate Fuzzy Q-iteration. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 5629-5634		4
40	2014 ,		3
39	Consistency of fuzzy model-based reinforcement learning 2008 ,		3
38	Observer-Based Assistive Control Design Under Time-Varying Sampling for Power-Assisted Wheelchairs. <i>IFAC-PapersOnLine</i> , 2018 , 51, 151-156	0.7	3
37	SpaceTime budget allocation policy design for viral marketing. <i>Nonlinear Analysis: Hybrid Systems</i> , 2020 , 37, 100899	4.5	2
36	Reinforcement Learning for Energy Optimization Under Human Fatigue Constraints of Power-Assisted Wheelchairs 2018 ,		2
35	Optimistic planning for belief-augmented Markov Decision Processes 2013 ,		2
34	Unknown input observer in descriptor form via LMIs for power-assisted wheelchairs 2017 ,		2
33	Near-optimal control of nonlinear switched systems with non-cooperative switching rules 2017 ,		2
32	Near-optimal strategies for nonlinear networked control systems using optimistic planning 2013 ,		2
31	A Survey of Optimistic Planning in Markov Decision Processes 2013 , 494-516		2
30	Learning control for transmission and navigation with a mobile robot under unknown communication rates. <i>Control Engineering Practice</i> , 2020 , 100, 104460	3.9	2
29	Online learning for optimistic planning. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 55, 70-82	7.2	2
28	Hardware and control design of a ball balancing robot 2019 ,		1
27	Robust Observer-Based Tracking Control Design for Power-Assisted Wheelchairs. <i>IFAC-PapersOnLine</i> , 2019 , 52, 61-66	0.7	1
26	Real-Time Optimistic Planning with Action Sequences 2015 ,		1
25	Consensus for agents with general dynamics using optimistic optimization 2013 ,		1
24	Imitation learning with non-parametric regression 2012 ,		1

23	The ClujUAV student competition: A corridor navigation challenge with autonomous drones. <i>IFAC-PapersOnLine</i> , 2020 , 53, 17511-17517	0.7	1
22	Vision-Based Quadcopter Navigation in Structured Environments. <i>Studies in Systems, Decision and Control</i> , 2015 , 265-290	0.8	1
21	Robust observer-based tracking control under actuator constraints for power-assisted wheelchairs. <i>Control Engineering Practice</i> , 2021 , 109, 104716	3.9	1
20	Analysis and a home assistance application of online AEMS2 planning 2016 ,		1
19	Discounted near-optimal control of general continuous-action nonlinear systems using optimistic planning 2016 ,		1
18	Optimistic planning for the near-optimal control of nonlinear switched discrete-time systems with stability guarantees 2019 ,		1
17	Sorting objects from a conveyor belt using active perception with a POMDP model 2019 ,		1
16	2019 ,		1
15	Stability analysis of discrete-time finite-horizon discounted optimal control 2018 ,		1
14	ObserveNet Control: A Vision-Dynamics Learning Approach to Predictive Control in Autonomous Vehicles. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6915-6922	4.2	1
13	Topology-preserving flocking of nonlinear agents using optimistic planning. <i>Control Theory and Technology</i> , 2015 , 13, 70-81	1	0
12	Sliding mode control of a ball balancing robot. <i>IFAC-PapersOnLine</i> , 2020 , 53, 9490-9495	0.7	0
11	Observer Design for a Class of Nonlinear Systems With Nonscalar-Input Nonlinear Consequents 2021 , 5, 971-976		0
10	Stable near-optimal control of nonlinear switched discrete-time systems: an optimistic planning-based approach. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
9	Optimistic planning with an adaptive number of action switches for near-optimal nonlinear control. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 67, 355-367	7.2	
8	Near-optimal control of nonlinear systems with simultaneous controlled and random switches. <i>IFAC-PapersOnLine</i> , 2019 , 52, 268-273	0.7	
7	Optimistic Planning for the Near-Optimal Control of General Nonlinear Systems with Continuous Transition Distributions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1910-1915		
6	Near-optimal control with adaptive receding horizon for discrete-time piecewise affine systems * *This work was supported by the Chinese Scholarship Council, as well as by the Agence Universitaire de la Francophonie (AUF) and the Romanian Institute for Atomic Physics (IFA) under the AUF-RO project NETASSIST. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1168-1173	0.7	

- 5 Decentralized Formation Control in Fleets of Nonholonomic Robots with a Clustered Pattern. *Studies in Systems, Decision and Control*, **2015**, 313-333 0.8
- 4 Efficient Knowledge Transfer in Shaping Reinforcement Learning. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 8981-8986
- 3 Cross Entropy Optimization of Action Modification Policies for Continuous-Valued MDPs. *IFAC-PapersOnLine*, **2020**, 53, 8124-8129 0.7
- 2 Optimistic minimax search for noncooperative switched control with or without dwell time. *Automatica*, **2020**, 112, 108632 5.7
- 1 Space-time budget allocation for marketing over social networks. *IFAC-PapersOnLine*, **2018**, 51, 211-216 0.7