

# Lucian Busoniu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1445245/lucian-busoniu-publications-by-year.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Robust observer-based tracking control under actuator constraints for power-assisted wheelchairs. <i>Control Engineering Practice</i> , <b>2021</b> , 109, 104716	3.9	1
75	Finite-Horizon Discounted Optimal Control: Stability and Performance. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 550-565	5.9	7
74	Observer Design for a Class of Nonlinear Systems With Nonscalar-Input Nonlinear Consequents <b>2021</b> , 5, 971-976		0
73	Stable near-optimal control of nonlinear switched discrete-time systems: an optimistic planning-based approach. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	0
72	ObserveNet Control: A Vision-Dynamics Learning Approach to Predictive Control in Autonomous Vehicles. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 6915-6922	4.2	1
71	Space-time budget allocation policy design for viral marketing. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2020</b> , 37, 100899	4.5	2
70	Sliding mode control of a ball balancing robot. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 9490-9495	0.7	0
69	The ClujUAV student competition: A corridor navigation challenge with autonomous drones. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 17511-17517	0.7	1
68	Cross Entropy Optimization of Action Modification Policies for Continuous-Valued MDPs. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 8124-8129	0.7	
67	Learning control for transmission and navigation with a mobile robot under unknown communication rates. <i>Control Engineering Practice</i> , <b>2020</b> , 100, 104460	3.9	2
66	Optimistic minimax search for noncooperative switched control with or without dwell time. <i>Automatica</i> , <b>2020</b> , 112, 108632	5.7	
65	Hardware and control design of a ball balancing robot <b>2019</b> ,		1
64	Data-Efficient Reinforcement Learning for Energy Optimization of Power-Assisted Wheelchairs. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9734-9744	8.9	6
63	Robust Observer-Based Tracking Control Design for Power-Assisted Wheelchairs. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 61-66	0.7	1
62	Near-optimal control of nonlinear systems with simultaneous controlled and random switches. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 268-273	0.7	
61	Optimistic planning for the near-optimal control of nonlinear switched discrete-time systems with stability guarantees <b>2019</b> ,		1
60	Sorting objects from a conveyor belt using active perception with a POMDP model <b>2019</b> ,		1

59	<b>2019,</b>		1
58	Continuous-action planning for discounted infinite-horizon nonlinear optimal control with Lipschitz values. <i>Automatica</i> , <b>2018</b> , 92, 100-108	5-7	5
57	Optimistic planning with an adaptive number of action switches for near-optimal nonlinear control. <i>Engineering Applications of Artificial Intelligence</i> , <b>2018</b> , 67, 355-367	7-2	
56	Reinforcement Learning for Energy Optimization Under Human Fatigue Constraints of Power-Assisted Wheelchairs <b>2018,</b>		2
55	Stability analysis of discrete-time finite-horizon discounted optimal control <b>2018,</b>		1
54	Observer-Based Assistive Control Design Under Time-Varying Sampling for Power-Assisted Wheelchairs. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 151-156	0-7	3
53	Fall monitoring and detection for at-risk persons using a UAV. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 199-204	0-7	9
52	Space-time budget allocation for marketing over social networks. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 211-216	0-7	
51	Reinforcement learning for control: Performance, stability, and deep approximators. <i>Annual Reviews in Control</i> , <b>2018</b> , 46, 8-28	10-3	100
50	Planning for optimal control and performance certification in nonlinear systems with controlled or uncontrolled switches. <i>Automatica</i> , <b>2017</b> , 78, 297-308	5-7	6
49	Unknown input observer in descriptor form via LMIs for power-assisted wheelchairs <b>2017,</b>		2
48	Near-optimal control of nonlinear switched systems with non-cooperative switching rules <b>2017,</b>		2
47	Stability Analysis of Discrete-Time Infinite-Horizon Optimal Control With Discounted Cost. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 2736-2749	5-9	45
46	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> , <b>2017</b> , 50, 4168-4173	0-7	
45	. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 2124-2139	5-9	7
44	Vision-based control of a quadrotor for an object inspection scenario <b>2016,</b>		15
43	Analysis and a home assistance application of online AEMS2 planning <b>2016,</b>		1
42	Discounted near-optimal control of general continuous-action nonlinear systems using optimistic planning <b>2016,</b>		1

41	Online learning for optimistic planning. <i>Engineering Applications of Artificial Intelligence</i> , <b>2016</b> , 55, 70-82	7.2	2
40	Topology-preserving flocking of nonlinear agents using optimistic planning. <i>Control Theory and Technology</i> , <b>2015</b> , 13, 70-81	1	0
39	Real-Time Optimistic Planning with Action Sequences <b>2015</b> ,		1
38	Vision and Control for UAVs: A Survey of General Methods and of Inexpensive Platforms for Infrastructure Inspection. <i>Sensors</i> , <b>2015</b> , 15, 14887-916	3.8	105
37	Machine Learning with Applications to Autonomous Systems. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-2	1.1	4
36	Decentralized Formation Control in Fleets of Nonholonomic Robots with a Clustered Pattern. <i>Studies in Systems, Decision and Control</i> , <b>2015</b> , 313-333	0.8	
35	Vision-Based Quadcopter Navigation in Structured Environments. <i>Studies in Systems, Decision and Control</i> , <b>2015</b> , 265-290	0.8	1
34	Consensus for black-box nonlinear agents using optimistic optimization. <i>Automatica</i> , <b>2014</b> , 50, 1201-1208	3.7	13
33	Railway track following with the AR.Drone using vanishing point detection <b>2014</b> ,		7
32	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> , <b>2014</b> , 47, 1910-1915		
31	<b>2014</b> ,		3
30	An analysis of optimistic, best-first search for minimax sequential decision making <b>2014</b> ,		4
29	Optimistic planning for belief-augmented Markov Decision Processes <b>2013</b> ,		2
28	Optimistic planning for continuous-action deterministic systems <b>2013</b> ,		6
27	Near-optimal strategies for nonlinear networked control systems using optimistic planning <b>2013</b> ,		2
26	Consensus for agents with general dynamics using optimistic optimization <b>2013</b> ,		1
25	A Survey of Optimistic Planning in Markov Decision Processes <b>2013</b> , 494-516		2
24	Efficient model learning methods for actor-critic control. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2012</b> , 42, 591-602		76

23	Least-Squares Methods for Policy Iteration. <i>Adaptation, Learning, and Optimization</i> , <b>2012</b> , 75-109	0.7	6
22	Experience Replay for Real-Time Reinforcement Learning Control. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2012</b> , 42, 201-212		107
21	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> , <b>2012</b> , 42, 1291-1307		315
20	Imitation learning with non-parametric regression <b>2012</b> ,		1
19	Model learning actor-critic algorithms: Performance evaluation in a motion control task <b>2012</b> ,		18
18	Cross-entropy optimization of control policies with adaptive basis functions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2011</b> , 41, 196-209		44
17	Efficient Knowledge Transfer in Shaping Reinforcement Learning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 8981-8986		
16	Approximate reinforcement learning: An overview <b>2011</b> ,		18
15	Optimistic planning for sparsely stochastic systems <b>2011</b> ,		5
14	Control delay in Reinforcement Learning for real-time dynamic systems: A memoryless approach <b>2010</b> ,		9
13	Multi-agent Reinforcement Learning: An Overview. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 183-221	0.8	135
12	Using prior knowledge to accelerate online least-squares policy iteration <b>2010</b> ,		5
11	Online least-squares policy iteration for reinforcement learning control <b>2010</b> ,		21
10	Approximate dynamic programming with a fuzzy parameterization. <i>Automatica</i> , <b>2010</b> , 46, 804-814	5.7	41
9	Approximate Dynamic Programming and Reinforcement Learning. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 3-44	0.8	7
8	Policy search with cross-entropy optimization of basis functions <b>2009</b> ,		5
7	A Comprehensive Survey of Multiagent Reinforcement Learning. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2008</b> , 38, 156-172		851
6	Consistency of fuzzy model-based reinforcement learning <b>2008</b> ,		3

5	Fuzzy Partition Optimization for Approximate Fuzzy Q-iteration. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 5629-5634		4
4	Continuous-State Reinforcement Learning with Fuzzy Approximation. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 27-43	0.9	10
3	Decentralized Reinforcement Learning Control of a Robotic Manipulator <b>2006</b> ,		15
2	Multi-Agent Reinforcement Learning: A Survey <b>2006</b> ,		38
1	Reinforcement Learning and Dynamic Programming Using Function Approximators		220