

# Aristotle Arapostathis

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8237794/aristotle-arapostathis-publications-by-year.pdf>

**Version:** 2024-04-24

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.

130  
papers

2,973  
citations

23  
h-index

52  
g-index

161  
ext. papers

3,652  
ext. citations

2.6  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
130	On ergodic control problem for viscous Hamilton-Jacobi equations for weakly coupled elliptic systems. <i>Journal of Differential Equations</i> , <b>2022</b> , 314, 128-160	2.1	
129	Optimal Sensor Scheduling under Intermittent Observations Subject to Network Dynamics. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	0
128	Exponential ergodicity and steady-state approximations for a class of markov processes under fast regime switching. <i>Advances in Applied Probability</i> , <b>2021</b> , 53, 1-29	0.7	
127	Optimal Scheduling of Critically Loaded Multiclass GI/M/n+M Queues in an Alternating Renewal Environment. <i>Applied Mathematics and Optimization</i> , <b>2021</b> , 84, 1857-1901	1.5	
126	On the policy improvement algorithm for ergodic risk-sensitive control. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , <b>2021</b> , 151, 1305-1330	1	1
125	A Variational Characterization of the Risk-Sensitive Average Reward for Controlled Diffusions on $\mathbb{R}^d$ . <i>SIAM Journal on Control and Optimization</i> , <b>2020</b> , 58, 3785-3813	1.9	1
124	Controlled Versions of the Collatz-Wielandt and Donsker-Varadhan Formulae. <i>Infosys Science Foundation Series</i> , <b>2020</b> , 199-214	0.1	
123	A Variational Formula for Risk-Sensitive Control of Diffusions in $\mathbb{R}^d$ . <i>SIAM Journal on Control and Optimization</i> , <b>2020</b> , 58, 85-103	1.9	6
122	Ergodic control of diffusions with compound Poisson jumps under a general structural hypothesis. <i>Stochastic Processes and Their Applications</i> , <b>2020</b> , 130, 6733-6756	1.1	3
121	Infinite horizon asymptotic average optimality for large-scale parallel server networks. <i>Stochastic Processes and Their Applications</i> , <b>2019</b> , 129, 283-322	1.1	3
120	Ergodic Control of a Class of Jump Diffusions with Finite Lévy Measures and Rough Kernels. <i>SIAM Journal on Control and Optimization</i> , <b>2019</b> , 57, 1516-1540	1.9	4
119	Ergodicity of a Lévy-driven SDE arising from multiclass many-server queues. <i>Annals of Applied Probability</i> , <b>2019</b> , 29,	2	13
118	Strict monotonicity of principal eigenvalues of elliptic operators in $\mathbb{R}^d$ and risk-sensitive control. <i>Journal Des Mathematiques Pures Et Appliquees</i> , <b>2019</b> , 124, 169-219	1.7	11
117	On uniqueness of solutions to viscous HJB equations with a subquadratic nonlinearity in the gradient. <i>Communications in Partial Differential Equations</i> , <b>2019</b> , 44, 1466-1480	1.6	4
116	Optimal Control of Markov-Modulated Multiclass Many-Server Queues. <i>Stochastic Systems</i> , <b>2019</b> , 9, 155-181	1.1	4
115	Uniform Polynomial Rates of Convergence for A Class of Lévy-Driven Controlled SDEs Arising in Multiclass Many-Server Queues. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>2019</b> , 1-20	0.5	2
114	Optimal scheduling of multiple sensors which transmit measurements over a dynamic lossy network <b>2019</b> ,		2

113	Open Problem—Convergence and Asymptotic Optimality of the Relative Value Iteration in Ergodic Control. <i>Stochastic Systems</i> , <b>2019</b> , 9, 292-294	1.7	1
112	Infinite-Horizon Average Optimality of the N-Network in the Halfin–Whitt Regime. <i>Mathematics of Operations Research</i> , <b>2018</b> , 43, 838-866	1.5	5
111	A counterexample to a nonlinear version of the Kreĭn–Rutman theorem by R. Mahadevan. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2018</b> , 171, 170-176	1.3	6
110	Infinite horizon risk-sensitive control of diffusions without any blanket stability assumptions. <i>Stochastic Processes and Their Applications</i> , <b>2018</b> , 128, 1485-1524	1.1	14
109	Certain Liouville properties of eigenfunctions of elliptic operators. <i>Transactions of the American Mathematical Society</i> , <b>2018</b> , 371, 4377-4409	1	4
108	Augmenting Max-Weight With Explicit Learning for Wireless Scheduling With Switching Costs. <i>IEEE/ACM Transactions on Networking</i> , <b>2018</b> , 26, 2501-2514	3.8	6
107	Controlled equilibrium selection in stochastically perturbed dynamics. <i>Annals of Probability</i> , <b>2018</b> , 46,	1.9	3
106	Some New Results on Sample Path Optimality in Ergodic Control of Diffusions. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5351-5356	5.9	2
105	A Correction to “A Relative Value Iteration Algorithm for Nondegenerate Controlled Diffusions”. <i>SIAM Journal on Control and Optimization</i> , <b>2017</b> , 55, 1711-1715	1.9	
104	On solutions of mean field games with ergodic cost. <i>Journal Des Mathematiques Pures Et Appliquees</i> , <b>2017</b> , 107, 205-251	1.7	8
103	Augmenting max-weight with explicit learning for wireless scheduling with switching costs <b>2017</b> ,		8
102	Ergodic diffusion control of multiclass multi-pool networks in the Halfin–Whitt regime. <i>Annals of Applied Probability</i> , <b>2016</b> , 26,	2	6
101	Risk-Sensitive Control and an Abstract Collatz–Wielandt Formula. <i>Journal of Theoretical Probability</i> , <b>2016</b> , 29, 1458-1484	0.5	10
100	The Dirichlet problem for stable-like operators and related probabilistic representations. <i>Communications in Partial Differential Equations</i> , <b>2016</b> , 41, 1472-1511	1.6	12
99	. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 19-33	5.9	2
98	Greedy Motion Planning for Simultaneous Signal Landscape Mapping and Receiver Localization. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2015</b> , 9, 247-258	7.5	20
97	Reliability analysis of three-dimensional shipboard electrical power distribution systems <b>2015</b> ,		2
96	Ergodic control of multi-class $M/M/N+M$ queues in the Halfin–Whitt regime. <i>Annals of Applied Probability</i> , <b>2015</b> , 25,	2	10

95	Convergence of the Relative Value Iteration for the Ergodic Control Problem of Nondegenerate Diffusions under Near-Monotone Costs. <i>SIAM Journal on Control and Optimization</i> , <b>2014</b> , 52, 1-31	1.9	4
94	Aspiration Learning in Coordination Games. <i>SIAM Journal on Control and Optimization</i> , <b>2013</b> , 51, 465-490	1.9	7
93	Relative Value Iteration for Stochastic Differential Games <b>2013</b> , 3-27		3
92	A Relative Value Iteration Algorithm for Nondegenerate Controlled Diffusions. <i>SIAM Journal on Control and Optimization</i> , <b>2012</b> , 50, 1886-1902	1.9	6
91	Eigen-genomic system dynamic-pattern analysis (ESDA): modeling mRNA degradation and self-regulation. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2012</b> , 9, 430-7	3	3
90	Resource allocation: Realizing mean-variability-fairness tradeoffs <b>2012</b> ,		5
89	Principal-oscillation-pattern analysis of gene expression. <i>PLoS ONE</i> , <b>2012</b> , 7, e28805	3.7	7
88	On the Policy Iteration Algorithm for Nondegenerate Controlled Diffusions Under the Ergodic Criterion <b>2012</b> , 1-12		
87	On the adaptive control of a class of partially observed Markov decision processes. <i>Journal of Mathematical Analysis and Applications</i> , <b>2011</b> , 380, 1-9	1.1	
86	Ergodic Control of Diffusion Processes <b>2011</b> ,		22
85	Aspiration learning in coordination games <b>2010</b> ,		4
84	Power Electronic Transient Load Model for Use in Stability Studies of Electric Power Grids. <i>IEEE Transactions on Power Systems</i> , <b>2010</b> , 25, 914-921	7	14
83	Uniform Recurrence Properties of Controlled Diffusions and Applications to Optimal Control. <i>SIAM Journal on Control and Optimization</i> , <b>2010</b> , 48, 4181-4223	1.9	15
82	Detection of Flicker Caused by Interharmonics. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 152-160	5.2	18
81	Signal Processing-Based Direction Finder for Transient Capacitor Switching Disturbances. <i>IEEE Transactions on Power Delivery</i> , <b>2008</b> , 23, 2555-2562	4.3	5
80	Necessary and Sufficient Conditions for State Equivalence to a Nonlinear Discrete-Time Observer Canonical Form. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 2701-2707	5.9	10
79	Optimal Sensor Querying: General Markovian and LQG Models With Controlled Observations. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 1392-1405	5.9	34
78	Condition Monitoring Based on Estimating Complex Coupling Coefficients <b>2008</b> ,		1

77	Joint Network Coding and Superposition Coding for Multi-User Information Exchange in Wireless Relaying Networks <b>2008</b> ,		20
76	Broadcasting in Sensor Networks: The Role of Local Information. <i>IEEE/ACM Transactions on Networking</i> , <b>2008</b> , 16, 1133-1146	3.8	5
75	LED Lamp Flicker Caused by Interharmonics <b>2008</b> ,		18
74	Stability and controllability of planar, conewise linear systems. <i>Systems and Control Letters</i> , <b>2007</b> , 56, 150-158	2.4	21
73	Capacity of a Class of Cognitive Radio Channels: Interference Channels With Degraded Message Sets. <i>IEEE Transactions on Information Theory</i> , <b>2007</b> , 53, 4391-4399	2.8	128
72	Stability and controllability of planar, conewise linear systems <b>2007</b> ,		1
71	Detection of Flicker Caused by High-frequency Interharmonics. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference</i> , <b>2007</b> ,		3
70	. <i>IEEE Power Engineering Society General Meeting</i> , <b>2007</b> ,		5
69	Optimal Power Generation Scheduling of a Shipboard Power System <b>2007</b> ,		6
68	Perspectives on Power System Reconfiguration for Shipboard Applications <b>2007</b> ,		2
67	Reconfiguration in Shipboard Power Systems. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	5
66	A Novel QPC Detector for the Health Monitoring of Rotating Machines. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference</i> , <b>2007</b> ,		9
65	On the Capacity of Gaussian Weak Interference Channels with Degraded Message sets <b>2006</b> ,		21
64	Analytical Modeling of SRAM Dynamic Stability. <i>IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers</i> , <b>2006</b> ,		24
63	Broadcasting in Sensor Networks: The Role of Local Information <b>2006</b> ,		2
62	Optimal power allocation for a time-varying wireless channel under heavy-traffic approximation. <i>IEEE Transactions on Automatic Control</i> , <b>2006</b> , 51, 580-594	5.9	20
61	. <i>IEEE Transactions on Power Delivery</i> , <b>2006</b> , 21, 253-261	4.3	58
60	On the existence of stationary optimal policies for partially observed MDPs under the long-run average cost criterion. <i>Systems and Control Letters</i> , <b>2006</b> , 55, 165-173	2.4	14

59	<b>2005,</b>			2
58	Minimum outage probability transmission with imperfect feedback for MISO fading channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2005</b> , 4, 1084-1091	9.6		23
57	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2005</b> , 2, 333-343	4.9		10
56	Controlled Markov chains with safety upper bound. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1230-1234	5.9		20
55	Linearization of discrete-time systems via restricted dynamic feedback. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1646-1650	5.9		4
54	Continuous selections of trajectories of hybrid systems. <i>Systems and Control Letters</i> , <b>2002</b> , 47, 149-157	2.4		26
53	A time-domain procedure for locating switched capacitors in power distribution systems. <i>IEEE Transactions on Power Delivery</i> , <b>2002</b> , 17, 1044-1049	4.3		1
52	On the controllability of a class of nonlinear stochastic systems. <i>Systems and Control Letters</i> , <b>2001</b> , 44, 25-34	2.4		22
51	Continuous Interpolation of Solutions of Lipschitz Inclusions. <i>Journal of Mathematical Analysis and Applications</i> , <b>2001</b> , 258, 565-572	1.1		5
50	A Note on Controllability of Impulsive Systems. <i>Journal of Mathematical Analysis and Applications</i> , <b>2000</b> , 241, 276-283	1.1		79
49	Safety Control of Completely Observed Markov Chains <b>2000</b> , 421-428			
48	Harnack's inequality for cooperative weakly coupled elliptic systems. <i>Communications in Partial Differential Equations</i> , <b>1999</b> , 24, 1555-1571	1.6		23
47	A statistical analysis of the effect of electric vehicle battery charging on distribution system harmonic voltages. <i>IEEE Transactions on Power Delivery</i> , <b>1998</b> , 13, 640-646	4.3		69
46	A procedure for derating a substation transformer in the presence of widespread electric vehicle battery charging. <i>IEEE Transactions on Power Delivery</i> , <b>1997</b> , 12, 1562-1568	4.3		40
45	A statistical method for predicting the net harmonic currents generated by a concentration of electric vehicle battery chargers. <i>IEEE Transactions on Power Delivery</i> , <b>1997</b> , 12, 1258-1266	4.3		78
44	Ergodic Control of Switching Diffusions. <i>SIAM Journal on Control and Optimization</i> , <b>1997</b> , 35, 1952-1988	1.9		143
43	Controlled switching diffusions as hybrid processes. <i>Lecture Notes in Computer Science</i> , <b>1996</b> , 64-75	0.9		1
42	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1919-1921	5.9		3

41	Discrete-Time Controlled Markov Processes with Average Cost Criterion: A Survey. <i>SIAM Journal on Control and Optimization</i> , <b>1993</b> , 31, 282-344	1.9	348
40	Optimal Control of Switching Diffusions with Application to Flexible Manufacturing Systems. <i>SIAM Journal on Control and Optimization</i> , <b>1993</b> , 31, 1183-1204	1.9	135
39	. <i>IEEE Transactions on Power Delivery</i> , <b>1993</b> , 8, 1303-1310	4.3	43
38	Some numerical aspects of approximate linearization of single input non-linear systems. <i>International Journal of Control</i> , <b>1993</b> , 57, 463-472	1.5	14
37	. <i>IEEE Transactions on Automatic Control</i> , <b>1993</b> , 38, 987-993	5.9	22
36	Structured solutions for stochastic control problems <b>1992</b> , 172-184		2
35	. <i>IEEE Transactions on Automatic Control</i> , <b>1992</b> , 37, 378-380	5.9	20
34	Adaptive control of a partially observed controlled Markov chain <b>1992</b> , 161-171		
33	Optimal control of switching diffusions modelling a flexible manufacturing system <b>1992</b> , 210-224		1
32	Discrete-Time Controlled Markov Processes With Average Cost Criterion: A Survey <b>1992</b> ,		3
31	On the average cost optimality equation and the structure of optimal policies for partially observable Markov decision processes. <i>Annals of Operations Research</i> , <b>1991</b> , 29, 439-469	3.2	44
30	Optimal Control of Switching Diffusions With Application to Flexible Manufacturing Systems <b>1991</b> ,		3
29	. <i>IEEE Transactions on Circuits and Systems</i> , <b>1990</b> , 37, 946-948		
28	Analysis of an identification algorithm arising in the adaptive estimation of Markov chains. <i>Mathematics of Control, Signals, and Systems</i> , <b>1990</b> , 3, 1-29	1.3	33
27	Remarks on the existence of solutions to the average cost optimality equation in Markov decision processes. <i>Systems and Control Letters</i> , <b>1990</b> , 15, 425-432	2.4	14
26	<b>1990</b> ,		2
25	Linearization of discrete and discretized nonlinear systems <b>1989</b> , 91-101		1
24	The effect of sampling on linear equivalence and feedback linearization. <i>Systems and Control Letters</i> , <b>1989</b> , 13, 373-381	2.4	34

23	Quaternion feedback regulator for spacecraft eigenaxis rotations. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1989</b> , 12, 375-380	2.1	330
22	On the adaptive control of a partially observable binary markov decision process <b>1989</b> , 217-228		4
21	Digital control of linearizable systems <b>1989</b> , 276-280		
20	Remarks on smooth feedback stabilization of nonlinear systems. <i>Systems and Control Letters</i> , <b>1988</b> , 10, 41-44	2.4	76
19	. <i>IEEE Transactions on Automatic Control</i> , <b>1988</b> , 33, 803-811	5.9	141
18	Remarks on the periodic orbits of the matrix Riccati equation. <i>International Journal of Control</i> , <b>1988</b> , 48, 949-959	1.5	1
17	Stabilization of discrete-time linear systems with a time delay in the feedback loop. <i>International Journal of Control</i> , <b>1988</b> , 48, 1475-1485	1.5	5
16	Linearization of discrete-time systems. <i>International Journal of Control</i> , <b>1987</b> , 45, 1803-1822	1.5	99
15	Remarks of discretization and linear equivalence of continuous time nonlinear systems <b>1987</b> ,		4
14	Simple sliding mode control scheme applied to robot manipulators! This research was supported in part by the National Science Foundation under grant ECS-8307547.. <i>International Journal of Control</i> , <b>1987</b> , 45, 1197-1209	1.5	98
13	On the controllability of piecewise-linear hypersurface systems. <i>Systems and Control Letters</i> , <b>1987</b> , 9, 89-96	2.4	16
12	A structure preserving energy function for power system transient stability analysis. <i>IEEE Transactions on Circuits and Systems</i> , <b>1985</b> , 32, 1041-1049		147
11	Behaviour of three-node power networks. <i>International Journal of Electrical Power and Energy Systems</i> , <b>1983</b> , 5, 22-30	5.1	6
10	Analytic expressions for the unstable manifold at equilibrium points in dynamical systems of differential equations <b>1983</b> ,		8
9	Global analysis of swing dynamics. <i>IEEE Transactions on Circuits and Systems</i> , <b>1982</b> , 29, 673-679		32
8	Bifurcation analysis of the load flow equations <b>1980</b> ,		2
7	Remarks on redundance in stability criteria and a counterexample to Fuller's conjecture! Research sponsored by the National Science Foundation Grant ENG76-21816.. <i>International Journal of Control</i> , <b>1979</b> , 29, 1027-1034	1.5	7
6	Virtual power quality analysis for ship power system design		2



5		5
4		6
3		7
2		3
1	Subexponential Upper and Lower Bounds in Wasserstein Distance for Markov Processes. <i>Applied Mathematics and Optimization</i> ,1	1.5 0