

# Aristotle Arapostathis

## List of Publications by Citations

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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	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
129	Quaternion feedback regulator for spacecraft eigenaxis rotations. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1989</b> , 12, 375-380	2.1	330
128	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
127	Ergodic Control of Switching Diffusions. <i>SIAM Journal on Control and Optimization</i> , <b>1997</b> , 35, 1952-1988	1.9	143
126	. <i>IEEE Transactions on Automatic Control</i> , <b>1988</b> , 33, 803-811	5.9	141
125	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
124	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
123	Linearization of discrete-time systems. <i>International Journal of Control</i> , <b>1987</b> , 45, 1803-1822	1.5	99
122	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
121	A Note on Controllability of Impulsive Systems. <i>Journal of Mathematical Analysis and Applications</i> , <b>2000</b> , 241, 276-283	1.1	79
120	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
119	Remarks on smooth feedback stabilization of nonlinear systems. <i>Systems and Control Letters</i> , <b>1988</b> , 10, 41-44	2.4	76
118	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
117	. <i>IEEE Transactions on Power Delivery</i> , <b>2006</b> , 21, 253-261	4.3	58
116	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
115	. <i>IEEE Transactions on Power Delivery</i> , <b>1993</b> , 8, 1303-1310	4.3	43
114	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

113	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
112	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
111	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
110	Global analysis of swing dynamics. <i>IEEE Transactions on Circuits and Systems</i> , <b>1982</b> , 29, 673-679		32
109	Continuous selections of trajectories of hybrid systems. <i>Systems and Control Letters</i> , <b>2002</b> , 47, 149-157	2.4	26
108	Analytical Modeling of SRAM Dynamic Stability. <i>IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers</i> , <b>2006</b> ,		24
107	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
106	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
105	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
104	. <i>IEEE Transactions on Automatic Control</i> , <b>1993</b> , 38, 987-993	5.9	22
103	Ergodic Control of Diffusion Processes <b>2011</b> ,		22
102	Stability and controllability of planar, conewise linear systems. <i>Systems and Control Letters</i> , <b>2007</b> , 56, 150-158	2.4	21
101	On the Capacity of Gaussian Weak Interference Channels with Degraded Message sets <b>2006</b> ,		21
100	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
99	Joint Network Coding and Superposition Coding for Multi-User Information Exchange in Wireless Relaying Networks <b>2008</b> ,		20
98	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
97	Controlled Markov chains with safety upper bound. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1230-1234	5.9	20
96	. <i>IEEE Transactions on Automatic Control</i> , <b>1992</b> , 37, 378-380	5.9	20

95	Detection of Flicker Caused by Interharmonics. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 152-160	5.2	18
94	LED Lamp Flicker Caused by Interharmonics <b>2008</b> ,		18
93	On the controllability of piecewise-linear hypersurface systems. <i>Systems and Control Letters</i> , <b>1987</b> , 9, 89-96	2.4	16
92	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
91	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
90	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
89	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
88	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
87	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
86	Ergodicity of a Lyapunov-driven SDE arising from multiclass many-server queues. <i>Annals of Applied Probability</i> , <b>2019</b> , 29,	2	13
85	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
84	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
83	Risk-Sensitive Control and an Abstract Collatz-Wielandt Formula. <i>Journal of Theoretical Probability</i> , <b>2016</b> , 29, 1458-1484	0.5	10
82	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
81	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
80	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2005</b> , 2, 333-343	4.9	10
79	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
78	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

77	Augmenting max-weight with explicit learning for wireless scheduling with switching costs <b>2017</b> ,		8
76	Analytic expressions for the unstable manifold at equilibrium points in dynamical systems of differential equations <b>1983</b> ,		8
75	Aspiration Learning in Coordination Games. <i>SIAM Journal on Control and Optimization</i> , <b>2013</b> , 51, 465-490.	1.9	7
74			7
73	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
72	Principal-oscillation-pattern analysis of gene expression. <i>PLoS ONE</i> , <b>2012</b> , 7, e28805	3.7	7
71	A counterexample to a nonlinear version of the Kreĭn-Butman theorem by R. Mahadevan. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2018</b> , 171, 170-176	1.3	6
70	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
69	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
68	Optimal Power Generation Scheduling of a Shipboard Power System <b>2007</b> ,		6
67			6
66	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
65	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
64	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
63	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
62	Resource allocation: Realizing mean-variability-fairness tradeoffs <b>2012</b> ,		5
61	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
60	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

59	. <i>IEEE Power Engineering Society General Meeting, 2007,</i>		5
58	Reconfiguration in Shipboard Power Systems. <i>Proceedings of the American Control Conference, 2007</i>	1.2	5
57	Continuous Interpolation of Solutions of Lipschitz Inclusions. <i>Journal of Mathematical Analysis and Applications, 2001,</i> 258, 565-572	1.1	5
56			5
55	Stabilization of discrete-time linear systems with a time delay in the feedback loop. <i>International Journal of Control, 1988,</i> 48, 1475-1485	1.5	5
54	Ergodic Control of a Class of Jump Diffusions with Finite Lévy Measures and Rough Kernels. <i>SIAM Journal on Control and Optimization, 2019,</i> 57, 1516-1540	1.9	4
53	On uniqueness of solutions to viscous HJB equations with a subquadratic nonlinearity in the gradient. <i>Communications in Partial Differential Equations, 2019,</i> 44, 1466-1480	1.6	4
52	Optimal Control of Markov-Modulated Multiclass Many-Server Queues. <i>Stochastic Systems, 2019,</i> 9, 155-181		4
51	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, 2014,</i> 52, 1-31	1.9	4
50	Aspiration learning in coordination games <b>2010,</b>		4
49	Linearization of discrete-time systems via restricted dynamic feedback. <i>IEEE Transactions on Automatic Control, 2003,</i> 48, 1646-1650	5.9	4
48	On the adaptive control of a partially observable binary markov decision process <b>1989,</b> 217-228		4
47	Remarks of discretization and linear equivalence of continuous time nonlinear systems <b>1987,</b>		4
46	Certain Liouville properties of eigenfunctions of elliptic operators. <i>Transactions of the American Mathematical Society, 2018,</i> 371, 4377-4409	1	4
45	Infinite horizon asymptotic average optimality for large-scale parallel server networks. <i>Stochastic Processes and Their Applications, 2019,</i> 129, 283-322	1.1	3
44	Eigen-genomic system dynamic-pattern analysis (ESDA): modeling mRNA degradation and self-regulation. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012,</i> 9, 430-7	3	3
43	Detection of Flicker Caused by High-frequency Interharmonics. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007,</i>		3
42	. <i>IEEE Transactions on Automatic Control, 1995,</i> 40, 1919-1921	5.9	3

41			3
40	Optimal Control of Switching Diffusions With Application to Flexible Manufacturing Systems <b>1991</b> ,		3
39	Discrete-Time Controlled Markov Processes With Average Cost Criterion: A Survey <b>1992</b> ,		3
38	Relative Value Iteration for Stochastic Differential Games <b>2013</b> , 3-27		3
37	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
36	Controlled equilibrium selection in stochastically perturbed dynamics. <i>Annals of Probability</i> , <b>2018</b> , 46,	1.9	3
35	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
34	. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 19-33	5.9	2
33	Reliability analysis of three-dimensional shipboard electrical power distribution systems <b>2015</b> ,		2
32	Perspectives on Power System Reconfiguration for Shipboard Applications <b>2007</b> ,		2
31	<b>2005</b> ,		2
30	Broadcasting in Sensor Networks: The Role of Local Information <b>2006</b> ,		2
29	Virtual power quality analysis for ship power system design		2
28	Structured solutions for stochastic control problems <b>1992</b> , 172-184		2
27	<b>1990</b> ,		2
26	Bifurcation analysis of the load flow equations <b>1980</b> ,		2
25	Uniform Polynomial Rates of Convergence for A Class of Lyapunov-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
24	Optimal scheduling of multiple sensors which transmit measurements over a dynamic lossy network <b>2019</b> ,		2

23	Condition Monitoring Based on Estimating Complex Coupling Coefficients <b>2008</b> ,		1
22	Stability and controllability of planar, conewise linear systems <b>2007</b> ,		1
21	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
20	Controlled switching diffusions as hybrid processes. <i>Lecture Notes in Computer Science</i> , <b>1996</b> , 64-75	0.9	1
19	Optimal control of switching diffusions modelling a flexible manufacturing system <b>1992</b> , 210-224		1
18	Linearization of discrete and discretized nonlinear systems <b>1989</b> , 91-101		1
17	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
16	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
15	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
14	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
13	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
12	Subexponential Upper and Lower Bounds in Wasserstein Distance for Markov Processes. <i>Applied Mathematics and Optimization</i> , 1	1.5	0
11	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	
10	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	
9	Adaptive control of a partially observed controlled Markov chain <b>1992</b> , 161-171		
8	. <i>IEEE Transactions on Circuits and Systems</i> , <b>1990</b> , 37, 946-948		
7	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	
6	Digital control of linearizable systems <b>1989</b> , 276-280		



5 Safety Control of Completely Observed Markov Chains **2000**, 421-428

4 Controlled Versions of the Collatz-Wielandt and Donsker-Varadhan Formulae. *Infosys Science Foundation Series*, **2020**, 199-214 0.1

3 On the Policy Iteration Algorithm for Nondegenerate Controlled Diffusions Under the Ergodic Criterion **2012**, 1-12

2 Exponential ergodicity and steady-state approximations for a class of markov processes under fast regime switching. *Advances in Applied Probability*, **2021**, 53, 1-29 0.7

1 Optimal Scheduling of Critically Loaded Multiclass GI/M/n+M Queues in an Alternating Renewal Environment. *Applied Mathematics and Optimization*, **2021**, 84, 1857-1901 1.5