Sean Meyn

List of Publications by Year
in descending order

54 papers	2,329 citations	759233 12 h-index	752698 20 g-index
57 all docs	57 docs citations	57 times ranked	1657 citing authors

#	Article	IF	Citations
1	Accelerating Optimization and Reinforcement Learning with Quasi Stochastic Approximation. , 2021, , .		2
2	Revisiting the ODE Method for Recursive Algorithms: Fast Convergence Using Quasi Stochastic Approximation. Journal of Systems Science and Complexity, 2021, 34, 1681-1702.	2.8	1
3	Kullback-Leibler-Quadratic Optimal Control in a Stochastic Environment. , 2021, , .		0
4	Electricity rates for the zero marginal cost grid. Electricity Journal, 2019, 32, 39-43.	2.5	28
5	On Matrix Momentum Stochastic Approximation and Applications to Q-learning. , 2019, , .		7
6	Kullback-Leibler-Quadratic Optimal Control of Flexible Power Demand. , 2019, , .		7
7	Quasi-Stochastic Approximation and Off-Policy Reinforcement Learning. , 2019, , .		5
8	State Space Collapse in Resource Allocation for Demand Dispatch. , 2019, , .		6
9	Estimation and Control of Quality of Service in Demand Dispatch. IEEE Transactions on Smart Grid, 2018, 9, 5348-5356.	9.0	9
10	Distributed Control Design for Balancing the Grid Using Flexible Loads. The IMA Volumes in Mathematics and Its Applications, 2018, , 383-411.	0.5	23
11	The value of volatile resources in electricity markets. Sustainable Energy, Grids and Networks, 2017, 11, 46-57.	3.9	6
12	Distributed randomized control for demand dispatch. , 2016, , .		13
13	Demand side frequency regulation from commercial building HVAC systems: An experimental study. , 2015, , .		10
14	State estimation and mean field control with application to demand dispatch. , 2015, , .		15
15	Experimental Evaluation of Frequency Regulation From Commercial Building HVAC Systems. IEEE Transactions on Smart Grid, 2015, 6, 776-783.	9.0	192
16	Approximate optimality with bounded regret in dynamic matching models. Performance Evaluation Review, 2015, 43, 75-77.	0.6	7
17	Ancillary Service to the Grid Through Control of Fans in Commercial Building HVAC Systems. IEEE Transactions on Smart Grid, 2014, 5, 2066-2074.	9.0	211
18	Individual risk in mean field control with application to automated demand response. , 2014, , .		19

#	ARTICLE	IF	CITATIONS
19	Large deviations for the empirical mean of an $$M/M/1$$ queue. Queueing Systems, 2013, 73, 425-446.	0.9	5
20	Ancillary service for the grid via control of commercial building HVAC systems. , 2013, , .		48
21	An Extreme-Point Subdifferential Method for Convex Hull Pricing in Energy and Reserve Marketsâ€"Part II: Convergence Analysis and Numerical Performance. IEEE Transactions on Power Systems, 2013, 28, 2121-2127.	6.5	16
22	Generalized Error Exponents for Small Sample Universal Hypothesis Testing. IEEE Transactions on Information Theory, 2013, 59, 8157-8181.	2.4	8
23	Classification with high-dimensional sparse samples. , 2012, , .		6
24	How demand response from commercial buildings will provide the regulation needs of the grid. , 2012, , .		72
25	Error exponents for composite hypothesis testing with small samples. , 2012, , .		3
26	Optimality of coincidence-based goodness of fit test for sparse sample problems. , 2012, , .		1
27	Markets for differentiated electric power products in a Smart Grid environment. , 2012, , .		11
28	Intelligence by design for the Entropic Grid. , 2011, , .		7
29	An extreme-point global optimization technique for convex hull pricing. , 2011, , .		2
30	Quasi stochastic approximation. , 2011, , .		7
31	On exponential ergodicity of multiclass queueing networks. Queueing Systems, 2010, 65, 109-133.	0.9	1
32	On thresholds for robust goodness-of-fit tests. , 2010, , .		6
33	The value of volatile resources in electricity markets. , 2010, , .		61
34	Feature extraction for universal hypothesis testing via rank-constrained optimization. , 2010, , .		3
35	A universal divergence-rate estimator for steganalysis in timing channels. , 2010, , .		1
36	Approximate dynamic programming using fluid and diffusion approximations with applications to power management. , 2009, , .		17

#	ARTICLE	IF	CITATIONS
37	Anomaly detection using projective Markov models in a distributed sensor network. , 2009, , .		7
38	A sensor-utility-network method for estimation of occupancy in buildings. , 2009, , .		93
39	Least favorable distributions for robust quickest change detection. , 2009, , .		2
40	Coding and control for communication networks. Queueing Systems, 2009, 63, 195-216.	0.9	2
41	Q-learning and Pontryagin's Minimum Principle. , 2009, , .		62
42	Statistical SVMs for robust detection, supervised learning, and universal classification. , 2009, , .		6
43	Stability and Asymptotic Optimality of Generalized MaxWeight Policies. SIAM Journal on Control and Optimization, 2009, 47, 3259-3294.	2.1	37
44	On complex spectra and metastability of Markov models. , 2008, , .		2
45	Shannon meets Bellman: Feature based Markovian models for detection and optimization. , 2008, , .		7
46	Belief propagation in feedback systems: Connections to bode and observability. , 2008, , .		0
47	Efficiency and marginal cost pricing in dynamic competitive markets with friction. , 2007, , .		4
48	Myopic policies and maxweight policies for stochastic networks. , 2007, , .		0
49	Worst-case large-deviation asymptotics with application to queueing and information theory. Stochastic Processes and Their Applications, 2006, 116, 724-756.	0.9	25
50	Dynamic Safety-Stocks for Asymptotic Optimality in Stochastic Networks. Queueing Systems, 2005, 50, 255-297.	0.9	15
51	Large Deviations Asymptotics and the Spectral Theory of Multiplicatively Regular Markov Processes. Electronic Journal of Probability, 2005, 10, .	1.0	86
52	In Search of Sensitivity in Network Optimization. Queueing Systems, 2003, 44, 313-363.	0.9	23
53	Value iteration and optimization of multiclass queueing networks. Queueing Systems, 1999, 32, 65-97.	0.9	54
54	Algorithms for optimization and stabilization of controlled Markov chains. Sadhana - Academy Proceedings in Engineering Sciences, 1999, 24, 339-367.	1.3	15