

Sean Meyn

List of Publications by Year in descending order

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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	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
2	Experimental Evaluation of Frequency Regulation From Commercial Building HVAC Systems. IEEE Transactions on Smart Grid, 2015, 6, 776-783.	9.0	192
3	A sensor-utility-network method for estimation of occupancy in buildings. , 2009, , .		93
4	Large Deviations Asymptotics and the Spectral Theory of Multiplicatively Regular Markov Processes. Electronic Journal of Probability, 2005, 10, .	1.0	86
5	How demand response from commercial buildings will provide the regulation needs of the grid. , 2012, , .		72
6	Q-learning and Pontryagin's Minimum Principle. , 2009, , .		62
7	The value of volatile resources in electricity markets. , 2010, , .		61
8	Value iteration and optimization of multiclass queueing networks. Queueing Systems, 1999, 32, 65-97.	0.9	54
9	Ancillary service for the grid via control of commercial building HVAC systems. , 2013, , .		48
10	Stability and Asymptotic Optimality of Generalized MaxWeight Policies. SIAM Journal on Control and Optimization, 2009, 47, 3259-3294.	2.1	37
11	Electricity rates for the zero marginal cost grid. Electricity Journal, 2019, 32, 39-43.	2.5	28
12	Worst-case large-deviation asymptotics with application to queueing and information theory. Stochastic Processes and Their Applications, 2006, 116, 724-756.	0.9	25
13	In Search of Sensitivity in Network Optimization. Queueing Systems, 2003, 44, 313-363.	0.9	23
14	Distributed Control Design for Balancing the Grid Using Flexible Loads. The IMA Volumes in Mathematics and Its Applications, 2018, , 383-411.	0.5	23
15	Individual risk in mean field control with application to automated demand response. , 2014, , .		19
16	Approximate dynamic programming using fluid and diffusion approximations with applications to power management. , 2009, , .		17
17	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
18	Algorithms for optimization and stabilization of controlled Markov chains. Sadhana - Academy Proceedings in Engineering Sciences, 1999, 24, 339-367.	1.3	15

#	ARTICLE	IF	CITATIONS
19	Dynamic Safety-Stocks for Asymptotic Optimality in Stochastic Networks. Queueing Systems, 2005, 50, 255-297.	0.9	15
20	State estimation and mean field control with application to demand dispatch. , 2015, , .		15
21	Distributed randomized control for demand dispatch. , 2016, , .		13
22	Markets for differentiated electric power products in a Smart Grid environment. , 2012, , .		11
23	Demand side frequency regulation from commercial building HVAC systems: An experimental study. , 2015, , .		10
24	Estimation and Control of Quality of Service in Demand Dispatch. IEEE Transactions on Smart Grid, 2018, 9, 5348-5356.	9.0	9
25	Generalized Error Exponents for Small Sample Universal Hypothesis Testing. IEEE Transactions on Information Theory, 2013, 59, 8157-8181.	2.4	8
26	Shannon meets Bellman: Feature based Markovian models for detection and optimization. , 2008, , .		7
27	Anomaly detection using projective Markov models in a distributed sensor network. , 2009, , .		7
28	Intelligence by design for the Entropic Grid. , 2011, , .		7
29	Quasi stochastic approximation. , 2011, , .		7
30	On Matrix Momentum Stochastic Approximation and Applications to Q-learning. , 2019, , .		7
31	Kullback-Leibler-Quadratic Optimal Control of Flexible Power Demand. , 2019, , .		7
32	Approximate optimality with bounded regret in dynamic matching models. Performance Evaluation Review, 2015, 43, 75-77.	0.6	7
33	Statistical SVMs for robust detection, supervised learning, and universal classification. , 2009, , .		6
34	On thresholds for robust goodness-of-fit tests. , 2010, , .		6
35	Classification with high-dimensional sparse samples. , 2012, , .		6
36	The value of volatile resources in electricity markets. Sustainable Energy, Grids and Networks, 2017, 11, 46-57.	3.9	6

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37	State Space Collapse in Resource Allocation for Demand Dispatch. , 2019, , .		6
38	Large deviations for the empirical mean of an $M/M/1$ queue. Queueing Systems, 2013, 73, 425-446.	0.9	5
39	Quasi-Stochastic Approximation and Off-Policy Reinforcement Learning. , 2019, , .		5
40	Efficiency and marginal cost pricing in dynamic competitive markets with friction. , 2007, , .		4
41	Feature extraction for universal hypothesis testing via rank-constrained optimization. , 2010, , .		3
42	Error exponents for composite hypothesis testing with small samples. , 2012, , .		3
43	On complex spectra and metastability of Markov models. , 2008, , .		2
44	Least favorable distributions for robust quickest change detection. , 2009, , .		2
45	Coding and control for communication networks. Queueing Systems, 2009, 63, 195-216.	0.9	2
46	An extreme-point global optimization technique for convex hull pricing. , 2011, , .		2
47	Accelerating Optimization and Reinforcement Learning with Quasi Stochastic Approximation. , 2021, , .		2
48	On exponential ergodicity of multiclass queueing networks. Queueing Systems, 2010, 65, 109-133.	0.9	1
49	A universal divergence-rate estimator for steganalysis in timing channels. , 2010, , .		1
50	Optimality of coincidence-based goodness of fit test for sparse sample problems. , 2012, , .		1
51	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
52	Myopic policies and maxweight policies for stochastic networks. , 2007, , .		0
53	Belief propagation in feedback systems: Connections to bode and observability. , 2008, , .		0
54	Kullback-Leibler-Quadratic Optimal Control in a Stochastic Environment. , 2021, , .		0