

Peyman Mohajerin Esfahani

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,677
citations

566801

15
h-index

580395

25
g-index

51
all docs

51
docs citations

51
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven distributionally robust optimization using the Wasserstein metric: performance guarantees and tractable reformulations. <i>Mathematical Programming</i> , 2018, 171, 115-166.	1.6	757
2	Symbolic Control of Stochastic Systems via Approximately Bisimilar Finite Abstractions. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 3135-3150.	3.6	109
3	Wasserstein Distributionally Robust Optimization: Theory and Applications in Machine Learning. , 2019, , 130-166.		102
4	Performance Bounds for the Scenario Approach and an Extension to a Class of Non-Convex Programs. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 46-58.	3.6	79
5	LQG Control With Minimum Directed Information: Semidefinite Programming Approach. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 37-52.	3.6	65
6	A decomposition method for large scale MILPs, with performance guarantees and a power system application. <i>Automatica</i> , 2016, 67, 144-156.	3.0	61
7	Data-driven inverse optimization with imperfect information. <i>Mathematical Programming</i> , 2018, 167, 191-234.	1.6	51
8	From Data to Decisions: Distributionally Robust Optimization Is Optimal. <i>Management Science</i> , 2021, 67, 3387-3402.	2.4	45
9	A robust policy for Automatic Generation Control cyber attack in two area power network. , 2010, , .		39
10	A Tractable Fault Detection and Isolation Approach for Nonlinear Systems With Probabilistic Performance. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 633-647.	3.6	34
11	Approximations of Stochastic Hybrid Systems: A Compositional Approach. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 2838-2853.	3.6	34
12	The stochastic reach-avoid problem and set characterization for diffusions. <i>Automatica</i> , 2016, 70, 43-56.	3.0	33
13	From Static to Dynamic Anomaly Detection With Application to Power System Cyber Security. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 1584-1596.	4.6	23
14	Cyber-Attacks in the Automatic Generation Control. <i>Power Systems</i> , 2015, , 303-328.	0.3	22
15	Efficient Approximation of Quantum Channel Capacities. <i>IEEE Transactions on Information Theory</i> , 2016, 62, 578-598.	1.5	19
16	From Infinite to Finite Programs: Explicit Error Bounds with Applications to Approximate Dynamic Programming. <i>SIAM Journal on Optimization</i> , 2018, 28, 1968-1998.	1.2	19
17	Efficient Approximation of Channel Capacities. <i>IEEE Transactions on Information Theory</i> , 2015, 61, 1649-1666.	1.5	16
18	Model based power optimisation of wind farms. , 2014, , .		13

#	ARTICLE	IF	CITATIONS
19	A Decentralized Event-Based Approach for Robust Model Predictive Control. IEEE Transactions on Automatic Control, 2020, 65, 3517-3529.	3.6	13
20	Distributionally Robust Inverse Covariance Estimation: The Wasserstein Shrinkage Estimator. Operations Research, 2022, 70, 490-515.	1.2	13
21	Stochastic Nonlinear Model Predictive Control of an Uncertain Batch Polymerization Reactor**This research was supported by the Netherlands Organization for Scientific Research (NWO) under the grant number 408-13-030.. IFAC-PapersOnLine, 2015, 48, 540-545.	0.5	12
22	Cyber-security of SCADA systems. , 2012, , .		10
23	Adaptively constrained Stochastic Model Predictive Control for closed-loop constraint satisfaction. , 2013, , .		10
24	On a problem of stochastic reach-avoid set characterization. , 2011, , .		9
25	Large scale mixed-integer optimization: A solution method with supply chain applications. , 2014, , .		9
26	Motion Planning for Continuous-Time Stochastic Processes: A Dynamic Programming Approach. IEEE Transactions on Automatic Control, 2016, 61, 2155-2170.	3.6	8
27	Security Versus Privacy. , 2018, , .		8
28	UWB orthogonal pulse design using Sturmâ€“Liouville boundary value problem. Signal Processing, 2019, 159, 147-158.	2.1	8
29	On Infinite Linear Programming and the Moment Approach to Deterministic Infinite Horizon Discounted Optimal Control Problems. , 2017, 1, 134-139.		7
30	Macroscopic Noisy Bounded Confidence Models With Distributed Radical Opinions. IEEE Transactions on Automatic Control, 2021, 66, 1174-1189.	3.6	6
31	Hybrid Modelling and Reachability on Autonomous RC-Cars. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 430-435.	0.4	5
32	Data-driven approximate dynamic programming: A linear programming approach. , 2017, , .		4
33	Continuous-Time Accelerated Methods via a Hybrid Control Lens. IEEE Transactions on Automatic Control, 2020, 65, 3425-3440.	3.6	4
34	Analysis of controlled biological switches via stochastic motion planning. , 2013, , .		4
35	Fault detection with discrete-time measurements: An application for the cyber security of power networks. , 2013, , .		3
36	Construction of approximations of stochastic control systems: A compositional approach. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	LQG control with minimum directed information. , 2016, , .		3
38	Dynamic Anomaly Detection With High-Fidelity Simulators: A Convex Optimization Approach. IEEE Transactions on Smart Grid, 2022, 13, 1500-1515.	6.2	3
39	Bisimilar finite abstractions of stochastic control systems. , 2013, , .		2
40	Efficient approximation of discrete memoryless channel capacities. , 2014, , .		2
41	Electric Vehicles aggregator optimization: a fast and solver-free solution method. , 2014, , .		2
42	Robust Linear Quadratic Regulator: Exact Tractable Reformulation. , 2019, , .		2
43	An optimization-based approach to control of robotic manipulators. , 2009, , .		1
44	Approximation of constrained average cost Marks. , 2014, , .		1
45	Capacity approximation of memoryless channels with countable output alphabets. , 2014, , .		1
46	Maximum Entropy Estimation via Gauss-LP Quadratures * *Research was supported by the Swiss National Science Foundation under grant â€œP2EZP2_165264â€•and by the European Commission under the project SPEEDD.. IFAC-PapersOnLine, 2017, 50, 10470-10475.	0.5	1
47	IPMC Kirigami: A Distributed Actuation Concept. , 2018, , .		1
48	Learning for Control: An Inverse Optimization Approach. , 2022, 6, 187-192.		1
49	Multimode Diagnosis for Switched Affine Systems. , 2021, , .		0
50	Learning for Control: An Inverse Optimization Approach. , 2021, , .		0
51	Real-Time Fault Estimation for a Class of Discrete-Time Linear Parameter-Varying Systems. , 2022, 6, 1988-1993.		0