

Andrey Bernstein

List of Publications by Year in descending order

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61
papers

1,269
citations

516710

16
h-index

526287

27
g-index

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all docs

61
docs citations

61
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Stage Reinforcement Learning Policy Search for Grid-Interactive Building Control. IEEE Transactions on Smart Grid, 2022, 13, 1976-1987.	9.0	6
2	Online data-enabled predictive control. Automatica, 2022, 138, 109926.	5.0	16
3	Multiarea Distribution System State Estimation via Distributed Tensor Completion. IEEE Transactions on Smart Grid, 2022, 13, 4887-4898.	9.0	3
4	Running Primal-Dual Gradient Method for Time-Varying Nonconvex Problems. SIAM Journal on Control and Optimization, 2022, 60, 1970-1990.	2.1	2
5	Learning-based demand response in grid-interactive buildings via Gaussian Processes. Electric Power Systems Research, 2022, 211, 108406.	3.6	1
6	Distributed Conditions for Small-Signal Stability of Power Grids and Local Control Design. IEEE Transactions on Power Systems, 2021, 36, 2058-2067.	6.5	6
7	Model-Free State Estimation Using Low-Rank Canonical Polyadic Decomposition. , 2021, 5, 605-610.		4
8	Grid-Forming Frequency Shaping Control for Low-Inertia Power Systems. , 2021, , .		5
9	Ripple-Type Control for Enhancing Resilience of Networked Physical Systems. , 2021, , .		1
10	Network-Cognizant Time-Coupled Aggregate Flexibility of Distribution Systems Under Uncertainties. , 2021, , .		2
11	Accelerating Optimization and Reinforcement Learning with Quasi Stochastic Approximation. , 2021, , .		2
12	Economic Dispatch With Distributed Energy Resources: Co-Optimization of Transmission and Distribution Systems. , 2021, , .		0
13	Substation-Level Grid Topology Optimization Using Bus Splitting. , 2021, , .		2
14	Residential Demand Side Aggregation of Privacy-Conscious Consumers. , 2021, , .		0
15	Emergency Voltage Regulation in Power Systems via Ripple-Type Control. , 2021, , .		2
16	Decentralized Low-Rank State Estimation for Power Distribution Systems. IEEE Transactions on Smart Grid, 2021, 12, 3097-3106.	9.0	14
17	Personalized optimization with user's feedback. Automatica, 2021, 131, 109767.	5.0	15
18	Network-Cognizant Time-Coupled Aggregate Flexibility of Distribution Systems Under Uncertainties. , 2021, 5, 1723-1728.		15

#	ARTICLE	IF	CITATIONS
19	Grid-Forming Frequency Shaping Control for Low-Inertia Power Systems. , 2021, 5, 1988-1993.		11
20	Economic Dispatch With Distributed Energy Resources: Co-Optimization of Transmission and Distribution Systems. , 2021, 5, 1994-1999.		7
21	A Generalized LinDistFlow Model for Power Flow Analysis. , 2021, , .		6
22	Online Optimization as a Feedback Controller: Stability and Tracking. IEEE Transactions on Control of Network Systems, 2020, 7, 422-432.	3.7	77
23	Real-Time Identifiability of Power Distribution Network Topologies With Limited Monitoring. , 2020, 4, 325-330.		27
24	Matrix Completion for Low-Observability Voltage Estimation. IEEE Transactions on Smart Grid, 2020, 11, 2520-2530.	9.0	49
25	Autonomous Energy Grids: Controlling the Future Grid With Large Amounts of Distributed Energy Resources. IEEE Power and Energy Magazine, 2020, 18, 37-46.	1.6	42
26	Optimal Energy Dispatch of Distributed PVs for the Next Generation of Distribution Management Systems. IEEE Open Access Journal of Power and Energy, 2020, 7, 287-295.	3.4	22
27	Data-Driven Linear Parameter-Varying Modeling and Control of Flexible Loads for Grid Services. , 2020, , .		0
28	Model-Free Primal-Dual Methods for Network Optimization with Application to Real-Time Optimal Power Flow. , 2020, , .		9
29	Bus Clustering for Distribution Grid Topology Identification. IEEE Transactions on Smart Grid, 2020, 11, 4080-4089.	9.0	13
30	Matrix Completion Using Alternating Minimization for Distribution System State Estimation. , 2020, , .		5
31	Multi-Area Model-Free State Estimation via Distributed Tensor Decomposition. , 2020, , .		1
32	Computation-Efficient Algorithm for Distributed Feedback Optimization of Distribution Grids. , 2020, , .		0
33	Real-Time Feedback-Based Optimization of Distribution Grids: A Unified Approach. IEEE Transactions on Control of Network Systems, 2019, 6, 1197-1209.	3.7	79
34	Joint Chance Constraints in AC Optimal Power Flow: Improving Bounds Through Learning. IEEE Transactions on Smart Grid, 2019, 10, 6376-6385.	9.0	47
35	On the Convergence of the Inexact Running Krasnosel'skiĭ-Mann Method. , 2019, 3, 613-618.		2
36	A Primal-Dual Gradient Method for Time-Varying Optimization with Application to Power Systems. Performance Evaluation Review, 2019, 46, 92-92.	0.6	0

#	ARTICLE	IF	CITATIONS
37	Online Primal-Dual Methods With Measurement Feedback for Time-Varying Convex Optimization. IEEE Transactions on Signal Processing, 2019, 67, 1978-1991.	5.3	65
38	Irradiance Field Reconstruction From Partial Observability of Solar Radiation. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1698-1702.	3.1	3
39	Dynamic Power Network State Estimation with Asynchronous Measurements. , 2019, , .		10
40	Robust Matrix Completion State Estimation in Distribution Systems. , 2019, , .		17
41	Towards robustness guarantees for feedback-based optimization. , 2019, , .		22
42	A Model for Joint Probabilistic Forecast of Solar Photovoltaic Power and Outdoor Temperature. IEEE Transactions on Signal Processing, 2019, 67, 6368-6383.	5.3	22
43	Load Flow in Multiphase Distribution Networks: Existence, Uniqueness, Non-Singularity and Linear Models. IEEE Transactions on Power Systems, 2018, 33, 5832-5843.	6.5	98
44	Experimental Validation of an Explicit Power-Flow Primary Control in Microgrids. IEEE Transactions on Industrial Informatics, 2018, 14, 4779-4791.	11.3	9
45	Explicit Conditions on Existence and Uniqueness of Load-Flow Solutions in Distribution Networks. IEEE Transactions on Smart Grid, 2018, 9, 953-962.	9.0	70
46	Network-Cognizant Voltage Droop Control for Distribution Grids. IEEE Transactions on Power Systems, 2018, 33, 2098-2108.	6.5	94
47	A Feedback-Based Regularized Primal-Dual Gradient Method for Time-Varying Nonconvex Optimization. , 2018, , .		8
48	Inner Approximation of Minkowski Sums: A Union-Based Approach and Applications to Aggregated Energy Resources. , 2018, , .		15
49	Asynchronous and Distributed Tracking of Time-Varying Fixed Points. , 2018, , .		7
50	JOINT CHANCE CONSTRAINTS REDUCTION THROUGH LEARNING IN ACTIVE DISTRIBUTION NETWORKS. , 2018, , .		6
51	Joint Probabilistic Forecasts of Temperature and Solar Irradiance. , 2018, , .		2
52	Autonomous Energy Grids. , 2018, , .		10
53	Existence and Uniqueness of Load-Flow Solutions in Three-Phase Distribution Networks. IEEE Transactions on Power Systems, 2017, 32, 3319-3320.	6.5	29
54	Linear power-flow models in multiphase distribution networks. , 2017, , .		77

#	ARTICLE	IF	CITATIONS
55	Feedback-based projected-gradient method for real-time optimization of aggregations of energy resources. , 2017, , .		4
56	Network-cognizant design of decentralized Volt/VAR controllers. , 2017, , .		4
57	A composable method for real-time control of active distribution networks with explicit power setpoints. Part II: Implementation and validation. Electric Power Systems Research, 2015, 125, 265-280.	3.6	43
58	A composable method for real-time control of active distribution networks with explicit power setpoints. Part I: Framework. Electric Power Systems Research, 2015, 125, 254-264.	3.6	113
59	Opportunistic Approachability and Generalized No-Regret Problems. Mathematics of Operations Research, 2014, 39, 1057-1083.	1.3	0
60	Sensitivity analysis of the power grid vulnerability to large-scale cascading failures. Performance Evaluation Review, 2012, 40, 33-37.	0.6	26
61	Adaptive-resolution reinforcement learning with polynomial exploration in deterministic domains. Machine Learning, 2010, 81, 359-397.	5.4	22