Emiliano Dall'Anese

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5500032/publications.pdf

Version: 2024-02-01

116 papers	3,982 citations	147566 31 h-index	161609 54 g-index
117 all docs	117 docs citations	117 times ranked	2973 citing authors

#	Article	IF	Citations
1	Distributed Optimal Power Flow for Smart Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1464-1475.	6.2	638
2	Optimal Dispatch of Photovoltaic Inverters in Residential Distribution Systems. IEEE Transactions on Sustainable Energy, 2014, 5, 487-497.	5.9	221
3	Optimal Power Flow Pursuit. IEEE Transactions on Smart Grid, 2018, 9, 942-952.	6.2	196
4	Scalable Optimization Methods for Distribution Networks With High PV Integration. IEEE Transactions on Smart Grid, 2016, 7, 2061-2070.	6.2	126
5	Chance-Constrained AC Optimal Power Flow for Distribution Systems With Renewables. IEEE Transactions on Power Systems, 2017, 32, 3427-3438.	4.6	121
6	Decentralized Optimal Dispatch of Photovoltaic Inverters in Residential Distribution Systems. IEEE Transactions on Energy Conversion, 2014, 29, 957-967.	3.7	120
7	Optimal Regulation of Virtual Power Plants. IEEE Transactions on Power Systems, 2018, 33, 1868-1881.	4.6	120
8	Cooperative Spectrum Sensing for Cognitive Radios Using Kriged Kalman Filtering. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 24-36.	7.3	117
9	Channel Gain Map Tracking via Distributed Kriging. IEEE Transactions on Vehicular Technology, 2011, 60, 1205-1211.	3.9	111
10	Load Flow in Multiphase Distribution Networks: Existence, Uniqueness, Non-Singularity and Linear Models. IEEE Transactions on Power Systems, 2018, 33, 5832-5843.	4.6	98
11	Unlocking Flexibility: Integrated Optimization and Control of Multienergy Systems. IEEE Power and Energy Magazine, 2017, 15, 43-52.	1.6	96
12	Network-Cognizant Voltage Droop Control for Distribution Grids. IEEE Transactions on Power Systems, 2018, 33, 2098-2108.	4.6	94
13	Data-Based Distributionally Robust Stochastic Optimal Power Flowâ€"Part I: Methodologies. IEEE Transactions on Power Systems, 2019, 34, 1483-1492.	4.6	85
14	Power Control for Cognitive Radio Networks Under Channel Uncertainty. IEEE Transactions on Wireless Communications, 2011, 10, 3541-3551.	6.1	83
15	Real-Time Feedback-Based Optimization of Distribution Grids: A Unified Approach. IEEE Transactions on Control of Network Systems, 2019, 6, 1197-1209.	2.4	79
16	Linear power-flow models in multiphase distribution networks. , 2017, , .		77
17	Online Optimization as a Feedback Controller: Stability and Tracking. IEEE Transactions on Control of Network Systems, 2020, 7, 422-432.	2.4	77
18	Optimal Waterâ€"Power Flow-Problem: Formulation and Distributed Optimal Solution. IEEE Transactions on Control of Network Systems, 2019, 6, 37-47.	2.4	72

#	Article	IF	Citations
19	Aggregate Power Flexibility in Unbalanced Distribution Systems. IEEE Transactions on Smart Grid, 2020, 11, 258-269.	6.2	71
20	An Incentive-Based Online Optimization Framework for Distribution Grids. IEEE Transactions on Automatic Control, 2018, 63, 2019-2031.	3.6	70
21	Photovoltaic Inverter Controllers Seeking AC Optimal Power Flow Solutions. IEEE Transactions on Power Systems, 2016, 31, 2809-2823.	4.6	65
22	Online Primal-Dual Methods With Measurement Feedback for Time-Varying Convex Optimization. IEEE Transactions on Signal Processing, 2019, 67, 1978-1991.	3.2	65
23	Time-Varying Convex Optimization: Time-Structured Algorithms and Applications. Proceedings of the IEEE, 2020, 108, 2032-2048.	16.4	65
24	Optimizing DER Participation in Inertial and Primary-Frequency Response. IEEE Transactions on Power Systems, 2018, 33, 5194-5205.	4.6	59
25	Prediction-Correction Algorithms for Time-Varying Constrained Optimization. IEEE Transactions on Signal Processing, 2017, 65, 5481-5494.	3.2	56
26	Optimal Dispatch of Residential Photovoltaic Inverters Under Forecasting Uncertainties. IEEE Journal of Photovoltaics, 2015, 5, 350-359.	1.5	47
27	Beyond Relaxation and Newtonâ€“Raphson: Solving AC OPF for Multi-Phase Systems With Renewables. IEEE Transactions on Smart Grid, 2018, 9, 3966-3975.	6.2	47
28	Distributed Controllers Seeking AC Optimal Power Flow Solutions Using ADMM. IEEE Transactions on Smart Grid, 2018, 9, 4525-4537.	6.2	46
29	Optimization and Learning With Information Streams: Time-varying algorithms and applications. IEEE Signal Processing Magazine, 2020, 37, 71-83.	4.6	43
30	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
31	Data-Based Distributionally Robust Stochastic Optimal Power Flowâ€”Part II: Case Studies. IEEE Transactions on Power Systems, 2019, 34, 1493-1503.	4.6	38
32	Wind direction estimation using SCADA data with consensus-based optimization. Wind Energy Science, 2019, 4, 355-368.	1.2	33
33	Dynamic Distribution State Estimation Using Synchrophasor Data. IEEE Transactions on Smart Grid, 2020, 11, 821-831.	6.2	29
34	Placement and Sizing of Inverter-Based Renewable Systems in Multi-Phase Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 918-930.	4.6	28
35	Optimization of unbalanced power distribution networks via semidefinite relaxation. , 2012, , .		27
36	Risk-Constrained Microgrid Reconfiguration Using Group Sparsity. IEEE Transactions on Sustainable Energy, 2014, 5, 1415-1425.	5.9	27

#	Article	IF	Citations
37	Group sparse Lasso for cognitive network sensing robust to model uncertainties and outliers. Physical Communication, 2012, 5, 161-172.	1.2	23
38	Saddle-Flow Dynamics for Distributed Feedback-Based Optimization. , 2019, 3, 948-953.		23
39	A Model for Joint Probabilistic Forecast of Solar Photovoltaic Power and Outdoor Temperature. IEEE Transactions on Signal Processing, 2019, 67, 6368-6383.	3.2	22
40	Distribution-agnostic stochastic optimal power flow for distribution grids. , 2016, , .		21
41	Online Stochastic Optimization of Networked Distributed Energy Resources. IEEE Transactions on Automatic Control, 2020, 65, 2387-2401.	3.6	21
42	Time-Varying Optimization of LTI Systems Via Projected Primal-Dual Gradient Flows. IEEE Transactions on Control of Network Systems, 2022, 9, 474-486.	2.4	20
43	Sparsity-Leveraging Reconfiguration of Smart Distribution Systems. IEEE Transactions on Power Delivery, 2014, 29, 1417-1426.	2.9	19
44	Optimizing Powerâ€“Frequency Droop Characteristics of Distributed Energy Resources. IEEE Transactions on Power Systems, 2018, 33, 3076-3086.	4.6	19
45	Dynamic Power Distribution System Management With a Locally Connected Communication Network. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 673-687.	7.3	19
46	Dynamic Network Delay Cartography. IEEE Transactions on Information Theory, 2014, 60, 2910-2920.	1.5	18
47	On the Effect of Imperfect Channel Estimation upon the Capacity of Correlated MIMO Fading Channels. , 2009, , .		17
48	Optimal power flow pursuit. , 2016, , .		17
49	Engineering inertial and primary-frequency response for distributed energy resources. , 2017, , .		15
50	Inner Approximation of Minkowski Sums: A Union-Based Approach and Applications to Aggregated Energy Resources. , 2018, , .		15
51	Personalized optimization with userâ€™s feedback. Automatica, 2021, 131, 109767.	3.0	15
52	Local voltage control in distribution networks: A game-theoretic perspective. , 2016, , .		14
53	Mitigating Communication Delays in Remotely Connected Hardware-in-the-Loop Experiments. IEEE Transactions on Industrial Electronics, 2018, 65, 9739-9748.	5.2	14
54	Primary frequency response with aggregated DERs. , 2017, , .		13

#	Article	IF	Citations
55	Dynamic ADMM for real-time optimal power flow. , 2017, , .		13
56	Stochastic Optimal Power Flow Based on Data-Driven Distributionally Robust Optimization. , 2018, , .		13
57	A tractable formulation for multi-period linearized optimal power flow in presence of thermostatically controlled loads. , 2019, , .		12
58	Fast clock synchronization in wireless sensor networks via ADMM-based consensus. , 2011, , .		11
59	Statistical Routing for Multihop Wireless Cognitive Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 1983-1993.	9.7	11
60	Cross-Layer Optimization and Receiver Localization for Cognitive Networks Using Interference Tweets. IEEE Journal on Selected Areas in Communications, 2014, 32, 641-653.	9.7	11
61	Power Allocation for Cognitive Radio Networks under Channel Uncertainty. , 2011, , .		10
62	Dynamic Power Network State Estimation with Asynchronous Measurements. , 2019, , .		10
63	Distributed and Inexact Proximal Gradient Method for Online Convex Optimization. , 2021, , .		10
64	On the Robustness of MIMO LMMSE Channel Estimation. IEEE Transactions on Wireless Communications, 2010, 9, 3313-3319.	6.1	8
65	Low Complexity Decision-Directed Channel Estimation Based on a Reliable-Symbol Selection Strategy for OFDM Systems. , 2010, , .		8
66	Regulation of dynamical systems to optimal solutions of semidefinite programs: Algorithms and applications to AC optimal power flow. , 2015, , .		8
67	A Feedback-Based Regularized Primal-Dual Gradient Method for Time-Varying Nonconvex Optimization. , 2018, , .		8
68	Design of distributed controllers seeking optimal power flow solutions under communication constraints. , 2016, , .		7
69	Incentive-based voltage regulation in distribution networks. , 2017, , .		7
70	Asynchronous and Distributed Tracking of Time-Varying Fixed Points. , 2018, , .		7
71	Online Proximal-ADMM for Time-Varying Constrained Convex Optimization. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 144-155.	1.6	7
72	Distributed cognitive spectrum sensing via group sparse total least-squares. , 2011, , .		5

#	Article	IF	Citations
73	Optimal distributed generation placement in distribution systems via semidefinite relaxation. , 2013, , .		5
74	Optimal power flow for distribution systems under uncertain forecasts. , 2016, , .		5
75	Quasi-Stochastic Approximation and Off-Policy Reinforcement Learning. , 2019, , .		5
76	Personalized Demand Response via Shape-Constrained Online Learning. , 2020, , .		5
77	Sparsity-aware cooperative cognitive radio sensing using channel gain maps. , 2009, , .		4
78	Dynamic network kriging. , 2012, , .		4
79	Feedback-based projected-gradient method for real-time optimization of aggregations of energy resources. , 2017, , .		4
80	Network-cognizant design of decentralized Volt/VAR controllers. , 2017, , .		4
81	Optimal Distributed Energy Storage Management Using Relaxed Dantzig-Wolfe Decomposition. , 2018, , .		4
82	Online Sparse Subspace Clustering. , 2019, , .		4
83	Bounds for the Tracking Error of First-Order Online Optimization Methods. Journal of Optimization Theory and Applications, 2021, 189, 437-457.	0.8	4
84	Extremum Seeking Under Persistent Gradient Deception: A Switching Systems Approach. , 2022, 6, 133-138.		4
85	Robust kriged Kalman filtering. , 2015, , .		3
86	A First-order Prediction-Correction Algorithm for Time-varying (Constrained) Optimization. IFAC-PapersOnLine, 2017, 50, 13228-13233.	0.5	3
87	Distributed optimal power flow using feasible point pursuit. , 2017, , .		3
88	Stochastic dual algorithm for voltage regulation in distribution networks with discrete loads. , 2017, , .		3
89	Bi-level dynamic optimization with feedback. , 2017, , .		3
90	Online Projected Gradient Descent for Stochastic Optimization With Decision-Dependent Distributions. , 2022, 6, 1646-1651.		3

#	Article	IF	Citations
91	Online optimization of LTI systems under persistent attacks: Stability, tracking, and robustness. Nonlinear Analysis: Hybrid Systems, 2022, 44, 101152.	2.1	3
92	Data-Driven Synthesis of Optimization-Based Controllers for Regulation of Unknown Linear Systems. , 2021, , .		3
93	Collaborative channel gain map tracking for cognitive radios. , 2010, , .		2
94	Group sparse total least-squares for cognitive spectrum sensing. , 2011, , .		2
95	Convex distribution system reconfiguration using group sparsity. , 2013, , .		2
96	Guest editorial introduction to the special issue on â€œadvanced signal processing techniques and telecommunications network infrastructures for smart grid analysis, monitoring, and managementâ€: Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.0	2
97	Regulation of renewable energy sources to optimal power flow solutions using ADMM. , 2017, , .		2
98	Joint Probabilistic Forecasts of Temperature and Solar Irradiance. , 2018, , .		2
99	On the Convergence of the Inexact Running Krasnoselâ€™skiÄâ€“Mann Method. , 2019, 3, 613-618.		2
100	Geostatistics-inspired sparsity-aware cooperative spectrum sensing for cognitive radio networks. , 2010, , .		2
101	Novel use of online optimization in a mathematical model of COVID-19 to guide the relaxation of pandemic mitigation measures. Scientific Reports, 2022, 12, 4731.	1.6	2
102	Feedback-Based Optimization With Sub-Weibull Gradient Errors and Intermittent Updates. , 2022, 6, 2521-2526.		2
103	Running Primal-Dual Gradient Method for Time-Varying Nonconvex Problems. SIAM Journal on Control and Optimization, 2022, 60, 1970-1990.	1.1	2
104	Spectrum sensing for cognitive radios using Kriged Kalman filtering. , 2009, , .		1
105	Admission and power control for cognitive radio networks by sequential geometric programming. , 2011, , .		1
106	On the greedy placement of energy storage systems in distribution grids. , 2020, , .		1
107	Joint rate and power control for coded cognitive radio networks. , 2011, , .		0
108	Mutual information of block-faded MIMO multiple access channels with channel estimation error. , 2011, , .		0

#	Article	IF	Citations
109	Statistical routing for cognitive random access networks. , 2012, , .		0
110	Distributed robust beamforming for MIMO cognitive networks. , 2012, , .		0
111	Hierarchical spectrum sharing using interference tweets. , 2013, , .		0
112	Primary receiver localization using sparsity and interference tweets. , 2013, , .		0
113	Joint resource allocation and receiver map estimation in underlay cognitive radios. , 2013, , .		0
114	Decentralized optimal dispatch of photovoltaic inverters in residential distribution systems. , 2015, , .		0
115	Photovoltaic inverter controllers seeking AC optimal power flow solutions. , 2017, , .		0
116	Personalized Online Optimization of Networked Systems via Gaussian Processes. , 2021, , .		0