

Alessandra Parisio

List of Publications by Year in descending order

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55
papers

3,492
citations

623188

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h-index

610482

24
g-index

55
all docs

55
docs citations

55
times ranked

3262
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency regulation and congestion management by Virtual Storage Plants. Sustainable Energy, Grids and Networks, 2022, 29, 100586.	2.3	10
2	Location-dependent distributed control of battery energy storage systems for fast frequency response. International Journal of Electrical Power and Energy Systems, 2021, 125, 106493.	3.3	16
3	Virtual Storage Plant Aggregating Electrical Energy Storages and HVAC Systems Providing Regulating Reserve and Voltage Regulation. IFAC-PapersOnLine, 2021, 54, 1-7.	0.5	3
4	Decentralised Predictive Control of Multi-Energy Resources in Buildings. , 2021, , .		1
5	Guest Editorial Model Predictive Control in Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2021, 36, 1311-1312.	3.7	0
6	Charge/Discharge Event Model for Electric Vehicles with Predictive Control Application. , 2021, , .		0
7	Optimal Virtual Power Plant Management for Multiple Grid Support Services. IEEE Transactions on Energy Conversion, 2021, 36, 1479-1490.	3.7	7
8	Model Predictive Control for optimizing the flexibility of sustainable energy assets: An experimental case study. International Journal of Electrical Power and Energy Systems, 2021, 129, 106822.	3.3	14
9	A Model Predictive Control Approach to Operation Optimization of an Ultracapacitor Bank for Frequency Control. IEEE Transactions on Energy Conversion, 2021, 36, 1743-1755.	3.7	6
10	Model Predictive Control of Smart Districts With Fifth Generation Heating and Cooling Networks. IEEE Transactions on Energy Conversion, 2021, 36, 2659-2669.	3.7	8
11	Distributed Control of Virtual Storage Plants for Grid Service Provision. , 2021, , .		0
12	Closed-Loop Identification for Model Predictive Control of HVAC Systems: From Input Design to Controller Synthesis. IEEE Transactions on Control Systems Technology, 2020, 28, 1681-1695.	3.2	16
13	Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. IEEE Transactions on Power Systems, 2020, 35, 3729-3738.	4.6	43
14	Distributed Control of Virtual Storage Plants in Microgrids for Short Term Operating Reserve in UK. , 2020, , .		3
15	Optimal Frequency Restoration of Inverter-Interfaced Microgrids via Distributed Energy Management. IFAC-PapersOnLine, 2020, 53, 12936-12941.	0.5	0
16	Hierarchical Model Predictive Control for Energy Efficient Buildings with Multi-Energy Storage Systems. , 2020, , .		1
17	Robust Decentralized Charge Control of Electric Vehicles under Uncertainty on Inelastic Demand and Energy Pricing. , 2020, , .		7
18	Towards Optimal Management and Control of Virtual Storage Plants for Flexible Operation in Future Power Networks. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Generalised control-oriented modelling framework for multi-energy systems. Applied Energy, 2019, 235, 320-331.	5.1	36
20	Energy Management Systems for Intelligent Buildings in Smart Grids. Advances in Industrial Control, 2018, , 253-291.	0.4	4
21	Use of Model Predictive Control for Short-Term Operating Reserve Using Commercial Buildings in the United Kingdom Context. , 2018, , .		5
22	Demand Smoothing in Multi-Energy Systems Using Model Predictive Control. , 2018, , .		2
23	Distributed model predictive control for building demand-side management. , 2018, , .		9
24	A conversion model for nodes in multi-energy systems. , 2017, , .		7
25	Cooperative MPC-Based Energy Management for Networked Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 3066-3074.	6.2	181
26	Multi-Location virtual smart grid laboratory with testbed for analysis of secure communication and remote co-simulation: concept and application to integration of Berlin, Stockholm, Helsinki. IET Generation, Transmission and Distribution, 2017, 11, 3134-3143.	1.4	13
27	Stochastic model predictive control for optimal energy management of district heating power plants. , 2016, , .		0
28	Stochastic model predictive control for economic/environmental operation management of microgrids: An experimental case study. Journal of Process Control, 2016, 43, 24-37.	1.7	108
29	Robust Scheduling of Smart Appliances in Active Apartments With User Behavior Uncertainty. IEEE Transactions on Automation Science and Engineering, 2016, 13, 247-259.	3.4	55
30	Demand response for aggregated residential consumers with energy storage sharing. , 2015, , .		30
31	A two-stage stochastic programming approach to employee scheduling in retail outlets with uncertain demand. Omega, 2015, 53, 97-103.	3.6	58
32	An MPC-based Energy Management System for multiple residential microgrids. , 2015, , .		26
33	Energy and CO ₂ efficient scheduling of smart appliances in active houses equipped with batteries. , 2014, , .		10
34	Control of HVAC systems via scenario-based explicit MPC. , 2014, , .		28
35	Stochastic Model Predictive Control for Building Climate Control. IEEE Transactions on Control Systems Technology, 2014, 22, 1198-1205.	3.2	106
36	A Model Predictive Control Approach to Microgrid Operation Optimization. IEEE Transactions on Control Systems Technology, 2014, 22, 1813-1827.	3.2	621

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37	Use of model predictive control for experimental microgrid optimization. Applied Energy, 2014, 115, 37-46.	5.1	184
38	Estimating the impacts of demand response by simulating household behaviours under price and CO2 signals. Electric Power Systems Research, 2014, 111, 103-114.	2.1	31
39	Implementation of a Scenario-based MPC for HVAC Systems: an Experimental Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 599-605.	0.4	34
40	Randomized Model Predictive Control for HVAC Systems. , 2013, , .		23
41	A scenario-based predictive control approach to building HVAC management systems. , 2013, , .		31
42	Stochastic Model Predictive Control for economic/environmental operation management of microgrids. , 2013, , .		29
43	Multi-objective optimization for environmental/economic microgrid scheduling. , 2012, , .		16
44	A robust optimization approach to energy hub management. International Journal of Electrical Power and Energy Systems, 2012, 42, 98-104.	3.3	253
45	Use of model predictive control and weather forecasts for energy efficient building climate control. Energy and Buildings, 2012, 45, 15-27.	3.1	886
46	A mixed integer linear formulation for microgrid economic scheduling. , 2011, , .		61
47	Energy efficient microgrid management using Model Predictive Control. , 2011, , .		68
48	Robust Optimization of operations in energy hub. , 2011, , .		23
49	Reducing peak electricity demand in building climate control using real-time pricing and model predictive control. , 2010, , .		135
50	Energy efficient building climate control using Stochastic Model Predictive Control and weather predictions. , 2010, , .		263
51	Robust invariant sets for constrained storage systems. Automatica, 2009, 45, 2930-2936.	3.0	9
52	Robust invariant set theory applied to networked buffer-level control. , 2008, , .		5
53	Hybrid Model for Crane Scheduling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15837-15842.	0.4	0
54	Cranes control with time-based and position constraints. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
55	Multiple cranes control with task deadlines and priority constraints. , 2007, , .		5