Alessandro Di Giorgio

List of Publications by Year
in descending order

64 papers	1,121 citations	686830 13 h-index	713013 21 g-index
64 all docs	64 docs citations	64 times ranked	1250 citing authors

#	Article	IF	Citations
1	Optimal Stochastic Control of Energy Storage System Based on Pontryagin Minimum Principle for Flattening PEV Fast Charging in a Service Area. , 2022, 6, 247-252.		5
2	Review of Cyber-Physical Attacks in Smart Grids: A System-Theoretic Perspective. Electronics (Switzerland), 2021, 10, 1153.	1.8	15
3	On the Participation of Charging Point Operators to the Frequency Regulation Service using Plug-in Electric Vehicles and 5G Communications. , 2021, , .		3
4	Optimal Control of Plug-In Electric Vehicles Charging for Composition of Frequency Regulation Services. Energies, 2021, 14, 7879.	1.6	4
5	An extended-observer approach to robust stabilisation of linear differential-algebraic systems. International Journal of Control, 2020, 93, 181-193.	1.2	2
6	Decentralized Model Predictive Control of Plug-in Electric Vehicles Charging based on the Alternating Direction Method of Multipliers. , 2020, , .		3
7	Controlled Optimal Black Start Procedures in Smart Grids for Service Restoration in Presence of Electrical Storage Systems. , 2020, , .		0
8	Efficient and Risk-Aware Control of Electricity Distribution Grids. IEEE Systems Journal, 2020, 14, 3586-3597.	2.9	7
9	Ensuring the Stability of Power Systems Against Dynamic Load Altering Attacks: A Robust Control Scheme Using Energy Storage Systems. , 2020, , .		7
10	Lyapunov-Based Design of a Distributed Wardrop Load-Balancing Algorithm With Application to Software-Defined Networking. IEEE Transactions on Control Systems Technology, 2019, 27, 1924-1936.	3.2	20
11	Joint Model Predictive Control of Electric and Heating Resources in a Smart Building. IEEE Transactions on Industry Applications, 2019, 55, 7015-7027.	3.3	23
12	Model Predictive Control of Energy Storage Systems for Power Regulation in Electricity Distribution Networks. , 2019, , .		2
13	Decentralised Model Predictive Control of Electric Vehicles Charging. , 2019, , .		1
14	Cooperative receding horizon strategies for the multivehicle routing problem. Optimal Control Applications and Methods, 2018, 39, 248-262.	1.3	1
15	Nearly Zero Energy Building Model Predictive Control for efficient heating. , 2018, , .		4
16	Risk Adverse Virtual Power Plant Control in Unsecure Power Systems. , 2018, , .		2
17	Plug-in Electric Vehicles Smart Charging in Italy: Control System Architecture and Field Test Results. , 2018, , .		3
18	Distributed Wardrop Load Balancing in Multi-MTU SCADA Systems. , 2018, , .		0

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19	Robust protection scheme against cyber‐physical attacks in power systems. IET Control Theory and Applications, 2018, 12, 1792-1801.	1.2	13
20	Robust Output Regulation for a Class of Linear Differential-Algebraic Systems. , 2018, 2, 477-482.		5
21	Economic Model Predictive and Feedback Control of a Smart Grid Prosumer Node. Energies, 2018, 11, 48.	1.6	5
22	Integrated protection of industrial control systems from cyber-attacks: the ATENA approach. International Journal of Critical Infrastructure Protection, 2018, 21, 72-82.	2.9	26
23	An approximate dynamic programming approach to resource management in multi-cloud scenarios. International Journal of Control, 2017, 90, 492-503.	1.2	28
24	An any‐sink energy‐efficient routing protocol in multi‐hop wireless sensor networks for planetary exploration. International Journal of Communication Systems, 2017, 30, e3020.	1.6	4
25	Multi-agent quality of experience control. International Journal of Control, Automation and Systems, 2017, 15, 892-904.	1.6	13
26	On the many-to-many carpooling problem in the context of multi-modal trip planning. , 2017, , .		2
27	Controlled electricity distribution network black start with energy storage system support. , 2017, , .		8
28	A distributed wardrop control algorithm for load balancing in smart grids. , 2017, , .		9
29	Model Predictive Control of Energy Storage Systems for Power Tracking and Shaving in Distribution Grids. IEEE Transactions on Sustainable Energy, 2017, 8, 496-504.	5.9	54
30	A Future Internet oriented user centric extended intelligent transportation system. , 2016, , .		15
31	A Model Predictive Control-Based Approach for Plug-in Electric Vehicles Charging: Power Tracking, Renewable Energy Sources Integration and Driver Preferences Satisfaction. Power Systems, 2015, , 203-240.	0.3	2
32	On the integration of small scale storage at home: Electrical and control design. , 2015, , .		1
33	KNX protocol compliant load shifting and storage control in residential buildings. , 2015, , .		6
34	Electric vehicle trip planning integrating range constraints and charging facilities. , 2015, , .		10
35	Electric energy storage systems integration in distribution grids. , 2015, , .		13
36	Real time optimal power flow integrating large scale storage devices and wind generation. , 2015, , .		7

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37	Electric Vehicles charging control based on future internet generic enablers. , 2014, , .		12
38	Smart vehicle to grid interface project: Electromobility management system architecture and field test results. , 2014, , .		5
39	Electric vehicles charging load reprofiling. , 2014, , .		14
40	Electric vehicles charging control in a smart grid: A model predictive control approach. Control Engineering Practice, 2014, 22, 147-162.	3.2	126
41	Near real time load shifting control for residential electricity prosumers under designed and market indexed pricing models. Applied Energy, 2014, 128, 119-132.	5.1	80
42	Optimal Planning and Routing in Medium Voltage PowerLine Communications Networks. IEEE Transactions on Smart Grid, 2013, 4, 711-719.	6.2	55
43	Regulation of angular speed and reactive power for a wind turbine applying robust feedback linearization and H<inf>&#x221E;</inf> control. , 2013, , .		2
44	Optimal fully electric vehicle load balancing with an ADMM algorithm in Smartgrids. , 2013, , .		21
45	IEC 61851 compliant electric vehicle charging control in smartgrids. , 2013, , .		30
46	On-board stochastic control of Electric Vehicle recharging. , 2013, , .		19
47	A case study of a commercial/residential microgrid integrating cogeneration and electrical local users. , 2013, , .		29
48	A model predictive control approach to the load shifting problem in a household equipped with an energy storage unit. , 2012, , .		31
49	Resilient planning of PowerLine Communications networks over Medium Voltage distribution grids. , 2012, , .		22
50	Distributed control approach for Community Energy Management Systems. , 2012, , .		8
51	A Bayesian Network-Based Approach to the Critical Infrastructure Interdependencies Analysis. IEEE Systems Journal, 2012, 6, 510-519.	2.9	36
52	An event driven Smart Home Controller enabling consumer economic saving and automated Demand Side Management. Applied Energy, 2012, 96, 92-103.	5.1	150
53	Optimal electric vehicles to grid power control for active demand services in distribution grids. , 2012, , .		11
54	Distributed control approach for community energy management systems in presence of storage. , 2012, , .		6

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55	An event driven Smart Home Controller enabling cost effective use of electric energy and automated Demand Side Management. , 2011, , .		28
56	Interdependency modeling and analysis of critical infrastructures based on Dynamic Bayesian Networks. , 2011, , .		19
57	Generation Portfolio Optimization by NPV formulation, Monte Carlo Estimators and Genetic Algorithms. , 2010, , .		1
58	A feedback linearization based Wind turbine control system for ancillary services and standard steady state operation. , 2010, , .		15
59	Local energy management system: Control scheme and loads modeling. , 2010, , .		4
60	Novel approach to generation Portfolio Optimization by using genetic algorithms and stochastic methods. , 2009, , .		1
61	Open-Source Implementation of Monitoring and Controlling Services for EMS/SCADA Systems by Means of Web Servicesâ€" IEC 61850 and IEC 61970 Standards. IEEE Transactions on Power Delivery, 2009, 24, 1148-1153.	2.9	53
62	A Model Based RL Admission Control Algorithm for Next Generation Networks. , 2009, , .		7
63	A Model Based RL Admission Control Algorithm for Next Generation Networks. , 2008, , .		9
64	QoS Management of Multicast and Broadcast Services in Next Generation Networks. , 2007, , .		4