Raffaele Carli

List of Publications by Year in Descending Order

56 papers	814 citations	17 h-index	26 g-index
71 ext. papers	1,165 ext. citations	3.9 avg, IF	5.51 L-index

#	Paper	IF	Citations
56	Robust Optimal Control for Demand Side Management of Multi-Carrier Microgrids. *IEEE Transactions on Automation Science and Engineering*, **2022**, 1-14	4.9	9
55	MPC-Based Process Control of Deep Drawing: An Industry 4.0 Case Study in Automotive. *IEEE Transactions on Automation Science and Engineering*, **2022**, 1-13	4.9	1
54	Automating Bin Packing: A Layer Building Matheuristics for Cost Effective Logistics. *IEEE Transactions on Automation Science and Engineering*, **2022**, 1-15	4.9	2
53	Control Techniques for Safe, Ergonomic, and Efficient Human-Robot Collaboration in the Digital Industry: A Survey. *IEEE Transactions on Automation Science and Engineering*, **2021**, 1-22	4.9	3
52	An MPC-based Approach for the Feedback Control of the Cold Sheet Metal Forming Process **2021**,		2
51	Modeling, Estimation, and Analysis of COVID-19 Secondary Waves: the Case of the Italian Country **2021**,		1
50	**2021**,		1
49	Stochastic Model Predictive Control of Community Energy Storage under High Renewable Penetration **2021**,		1
48	Robust Optimal Energy Management of a Residential Microgrid Under Uncertainties on Demand and Renewable Power Generation. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 618-637	4.9	46
47	Efficient and Sustainable Reconfiguration of Distribution Networks via Metaheuristic Optimization. *IEEE Transactions on Automation Science and Engineering*, **2021**, 1-17	4.9	28
46	Nonpharmaceutical Stochastic Optimal Control Strategies to Mitigate the COVID-19 Spread. *IEEE Transactions on Automation Science and Engineering*, **2021**, 1-16	4.9	1
45	Distributed Demand Side Management With Stochastic Wind Power Forecasting. *IEEE Transactions on Control Systems Technology*, **2021**, 1-16	4.8	39
44	A Robust MPC Energy Scheduling Strategy for Multi-Carrier Microgrids **2020**,		4
43	Sustainable Scheduling of Material Handling Activities in Labor-Intensive Warehouses: A Decision and Control Model. *Sustainability*, **2020**, 12, 3111	3.6	8
42	A Dynamic Programming Approach for the Decentralized Control of Energy Retrofit in Large-Scale Street Lighting Systems. *IEEE Transactions on Automation Science and Engineering*, **2020**, 1-18	4.9	17
41	IoT Based Architecture for Model Predictive Control of HVAC Systems in Smart Buildings. *Sensors*, **2020**, 20,	3.8	42
40	Distributed control of electric vehicle fleets considering grid congestion and battery degradation. *Internet Technology Letters*, **2020**, 3, e161	1.3	5

No.	Title	IF	Cit.
39	Energy scheduling of a smart microgrid with shared photovoltaic panels and storage: The case of the Ballen marina in Samsø *Energy*, **2020**, 198, 117188	7.9	39
38	A Control Strategy for Smart Energy Charging of Warehouse Material Handling Equipment. *Procedia Manufacturing*, **2020**, 42, 503-510	1.5	9
37	A Distributed, Rolling-Horizon Demand Side Management Algorithm under Wind Power Uncertainty. *IFAC-PapersOnLine*, **2020**, 53, 12620-12625	0.7	1
36	Consensus-Based Algorithms for Controlling Swarms of Unmanned Aerial Vehicles. *Lecture Notes in Computer Science*, **2020**, 84-99	0.9	3
35	Model predictive control to mitigate the COVID-19 outbreak in a multi-region scenario. *Annual Reviews in Control*, **2020**, 50, 373-393	10.3	38
34	Smart Control Strategies for Primary Frequency Regulation through Electric Vehicles: A Battery Degradation Perspective. *Energies*, **2020**, 13, 4586	3.1	17
33	A game-theoretic control approach for the optimal energy storage under power flow constraints in distribution networks **2020**,		1
32	Distributed Alternating Direction Method of Multipliers for Linearly Constrained Optimization Over a Network **2020**, 4, 247-252		6
31	Decentralized control for residential energy management of a smart users microgrid with renewable energy exchange. *IEEE/CAA Journal of Automatica Sinica*, **2019**, 6, 641-656	7	50
30	A Multi-Period Approach for the Optimal Energy Retrofit Planning of Street Lighting Systems. *Applied Sciences (Switzerland)*, **2019**, 9, 1025	2.6	4
29	Robust Day-Ahead Energy Scheduling of a Smart Residential User Under Uncertainty **2019**,		9
28	A Distributed Control Approach Based on Game Theory for the Optimal Energy Scheduling of a Residential Microgrid with Shared Generation and Storage **2019**,		2
27	Model predictive control for thermal comfort optimization in building energy management systems **2019**,		4
26	A Residential Demand-Side Management Strategy under Nonlinear Pricing Based on Robust Model Predictive Control **2019**,		8
25	Robust Energy Scheduling of Interconnected Smart Homes with Shared Energy Storage under Quadratic Pricing **2019**,		4
24	ICT-based Methodologies for Sheet Metal Forming Design: A Survey on Simulation Approaches **2019**,		1
23	Monitoring traffic congestion in urban areas through probe vehicles: A case study analysis. *Internet Technology Letters*, **2018**, 1, e5	1.3	6
22	Multi-criteria decision-making for sustainable metropolitan cities assessment. *Journal of Environmental Management*, **2018**, 226, 46-61	7.9	50

21	A decision-making tool for energy efficiency optimization of street lighting. *Computers and Operations Research*, **2018**, 96, 223-235	4.6	43
20	Model Predictive Control for Real-Time Residential Energy Scheduling under Uncertainties **2018**,		4
19	Distributed Control for Waterfilling of Networked Control Systems with Coupling Constraints **2018**,		3
18	A Distributed Control Algorithm for Optimal Charging of Electric Vehicle Fleets with Congestion Management. *IFAC-PapersOnLine*, **2018**, 51, 373-378	0.7	22
17	Cost-Optimal Energy Scheduling of a Smart Home Under Uncertainty **2018**,		1
16	A Decision Making Technique to Optimize a Buildings Stock Energy Efficiency. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 794-807	7.3	36
15	An optimization tool for energy efficiency of street lighting systems in smart cities. *IFAC-PapersOnLine*, **2017**, 50, 14460-14464	0.7	30
14	A Distributed Control Algorithm for Waterfilling of Networked Control Systems via Consensus **2017**, 1, 334-339		18
13	A Hierarchical Decision-Making Strategy for the Energy Management of Smart Cities. *IEEE Transactions on Automation Science and Engineering*, **2017**, 14, 505-523	4.9	42
12	Cooperative Distributed Control for the Energy Scheduling of Smart Homes with Shared Energy Storage and Renewable Energy Source. *IFAC-PapersOnLine*, **2017**, 50, 8867-8872	0.7	24
11	A decentralized control strategy for optimal charging of electric vehicle fleets with congestion management **2017**,		5
10	Bi-level programming for the strategic energy management of a smart city **2016**,		1
9	An average consensus approach for the optimal allocation of a shared renewable energy source **2016**,		1
8	A dashboard and decision support tool for the energy governance of smart cities **2015**,		7
7	ICT and optimization for the energy management of smart cities: The street lighting decision panel **2015**,		7
6	A decentralized resource allocation approach for sharing renewable energy among interconnected smart homes **2015**,		15
5	Using multi-objective optimization for the integrated energy efficiency improvement of a smart city public buildings' portfolio **2015**,		10
4	Automated evaluation of urban traffic congestion using bus as a probe **2015**,		8

LIST OF PUBLICATIONS