

# Raffaele Carli

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Decentralized control for residential energy management of a smart users microgrid with renewable energy exchange. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2019</b> , 6, 641-656	7	50
55	Multi-criteria decision-making for sustainable metropolitan cities assessment. <i>Journal of Environmental Management</i> , <b>2018</b> , 226, 46-61	7.9	50
54	Robust Optimal Energy Management of a Residential Microgrid Under Uncertainties on Demand and Renewable Power Generation. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 618-637	4.9	46
53	Measuring and Managing the Smartness of Cities: A Framework for Classifying Performance Indicators <b>2013</b> ,		44
52	A decision-making tool for energy efficiency optimization of street lighting. <i>Computers and Operations Research</i> , <b>2018</b> , 96, 223-235	4.6	43
51	IoT Based Architecture for Model Predictive Control of HVAC Systems in Smart Buildings. <i>Sensors</i> , <b>2020</b> , 20,	3.8	42
50	A Hierarchical Decision-Making Strategy for the Energy Management of Smart Cities. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2017</b> , 14, 505-523	4.9	42
49	Energy scheduling of a smart microgrid with shared photovoltaic panels and storage: The case of the Ballen marina in Samsat Energy, <b>2020</b> , 198, 117188	7.9	39
48	Distributed Demand Side Management With Stochastic Wind Power Forecasting. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-16	4.8	39
47	Model predictive control to mitigate the COVID-19 outbreak in a multi-region scenario. <i>Annual Reviews in Control</i> , <b>2020</b> , 50, 373-393	10.3	38
46	A Decision Making Technique to Optimize a Buildings Stock Energy Efficiency. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 794-807	7.3	36
45	An optimization tool for energy efficiency of street lighting systems in smart cities. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 14460-14464	0.7	30
44	Efficient and Sustainable Reconfiguration of Distribution Networks via Metaheuristic Optimization. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-17	4.9	28
43	Cooperative Distributed Control for the Energy Scheduling of Smart Homes with Shared Energy Storage and Renewable Energy Source. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 8867-8872	0.7	24
42	A Distributed Control Algorithm for Optimal Charging of Electric Vehicle Fleets with Congestion Management. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 373-378	0.7	22
41	A Distributed Control Algorithm for Waterfilling of Networked Control Systems via Consensus <b>2017</b> , 1, 334-339		18
40	A Dynamic Programming Approach for the Decentralized Control of Energy Retrofit in Large-Scale Street Lighting Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2020</b> , 1-18	4.9	17

39	Smart Control Strategies for Primary Frequency Regulation through Electric Vehicles: A Battery Degradation Perspective. <i>Energies</i> , <b>2020</b> , 13, 4586	3.1	17
38	A decentralized resource allocation approach for sharing renewable energy among interconnected smart homes <b>2015</b> ,		15
37	Energy scheduling of a smart home under nonlinear pricing <b>2014</b> ,		15
36	Using multi-objective optimization for the integrated energy efficiency improvement of a smart city public buildings' portfolio <b>2015</b> ,		10
35	An urban control center for the energy governance of a smart city <b>2014</b> ,		10
34	A Control Strategy for Smart Energy Charging of Warehouse Material Handling Equipment. <i>Procedia Manufacturing</i> , <b>2020</b> , 42, 503-510	1.5	9
33	Robust Day-Ahead Energy Scheduling of a Smart Residential User Under Uncertainty <b>2019</b> ,		9
32	Robust Optimal Control for Demand Side Management of Multi-Carrier Microgrids. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-14	4.9	9
31	Sustainable Scheduling of Material Handling Activities in Labor-Intensive Warehouses: A Decision and Control Model. <i>Sustainability</i> , <b>2020</b> , 12, 3111	3.6	8
30	Automated evaluation of urban traffic congestion using bus as a probe <b>2015</b> ,		8
29	A Residential Demand-Side Management Strategy under Nonlinear Pricing Based on Robust Model Predictive Control <b>2019</b> ,		8
28	A dashboard and decision support tool for the energy governance of smart cities <b>2015</b> ,		7
27	ICT and optimization for the energy management of smart cities: The street lighting decision panel <b>2015</b> ,		7
26	Monitoring traffic congestion in urban areas through probe vehicles: A case study analysis. <i>Internet Technology Letters</i> , <b>2018</b> , 1, e5	1.3	6
25	Distributed Alternating Direction Method of Multipliers for Linearly Constrained Optimization Over a Network <b>2020</b> , 4, 247-252		6
24	Distributed control of electric vehicle fleets considering grid congestion and battery degradation. <i>Internet Technology Letters</i> , <b>2020</b> , 3, e161	1.3	5
23	A decentralized control strategy for optimal charging of electric vehicle fleets with congestion management <b>2017</b> ,		5
22	A Multi-Period Approach for the Optimal Energy Retrofit Planning of Street Lighting Systems. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1025	2.6	4

21	A Robust MPC Energy Scheduling Strategy for Multi-Carrier Microgrids <b>2020</b> ,		4
20	Model predictive control for thermal comfort optimization in building energy management systems <b>2019</b> ,		4
19	Robust Energy Scheduling of Interconnected Smart Homes with Shared Energy Storage under Quadratic Pricing <b>2019</b> ,		4
18	Model Predictive Control for Real-Time Residential Energy Scheduling under Uncertainties <b>2018</b> ,		4
17	Control Techniques for Safe, Ergonomic, and Efficient Human-Robot Collaboration in the Digital Industry: A Survey. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-22	4.9	3
16	Consensus-Based Algorithms for Controlling Swarms of Unmanned Aerial Vehicles. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 84-99	0.9	3
15	Distributed Control for Waterfilling of Networked Control Systems with Coupling Constraints <b>2018</b> ,		3
14	A Distributed Control Approach Based on Game Theory for the Optimal Energy Scheduling of a Residential Microgrid with Shared Generation and Storage <b>2019</b> ,		2
13	An MPC-based Approach for the Feedback Control of the Cold Sheet Metal Forming Process <b>2021</b> ,		2
12	Automating Bin Packing: A Layer Building Matheuristics for Cost Effective Logistics. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-15	4.9	2
11	Bi-level programming for the strategic energy management of a smart city <b>2016</b> ,		1
10	A Distributed, Rolling-Horizon Demand Side Management Algorithm under Wind Power Uncertainty. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 12620-12625	0.7	1
9	A game-theoretic control approach for the optimal energy storage under power flow constraints in distribution networks <b>2020</b> ,		1
8	Modeling, Estimation, and Analysis of COVID-19 Secondary Waves: the Case of the Italian Country <b>2021</b> ,		1
7	<b>2021</b> ,		1
6	Stochastic Model Predictive Control of Community Energy Storage under High Renewable Penetration <b>2021</b> ,		1
5	An average consensus approach for the optimal allocation of a shared renewable energy source <b>2016</b> ,		1
4	ICT-based Methodologies for Sheet Metal Forming Design: A Survey on Simulation Approaches <b>2019</b> ,		1

3	Cost-Optimal Energy Scheduling of a Smart Home Under Uncertainty <b>2018</b> ,		1
2	Nonpharmaceutical Stochastic Optimal Control Strategies to Mitigate the COVID-19 Spread. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-16	4.9	1
1	MPC-Based Process Control of Deep Drawing: An Industry 4.0 Case Study in Automotive. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-13	4.9	1