

# Ruggero Carli

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

2,162  
citations

489802

18  
h-index

388640

36  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remote MPC for Tracking Over Lossy Networks. , 2022, 6, 1040-1045.		4
2	Feedback Power Cost Optimization in Power Distribution Networks With Prosumers. IEEE Transactions on Control of Network Systems, 2022, 9, 1633-1644.	2.4	4
3	A novel bound on the convergence rate of ADMM for distributed optimization. Automatica, 2022, 142, 110403.	3.0	1
4	Model-Based Policy Search Using Monte Carlo Gradient Estimation With Real Systems Application. IEEE Transactions on Robotics, 2022, 38, 3879-3898.	7.3	6
5	Asynchronous Distributed Optimization Over Lossy Networks via Relaxed ADMM: Stability and Linear Convergence. IEEE Transactions on Automatic Control, 2021, 66, 2620-2635.	3.6	37
6	Autonomous Learning of the Robot Kinematic Model. IEEE Transactions on Robotics, 2021, 37, 877-892.	7.3	5
7	Robust Visibility Surface Determination in Object Space via Plücker Coordinates. Journal of Imaging, 2021, 7, 96.	1.7	0
8	Kernel-based methods for Volterra series identification. Automatica, 2021, 129, 109686.	3.0	11
9	Model Predictive Control for Efficient Management of Energy Resources in Smart Buildings. Energies, 2021, 14, 5592.	1.6	10
10	Control of Mechanical Systems via Feedback Linearization Based on Black-Box Gaussian Process Models. , 2021, , .		2
11	Cooperative Aerial Load Transportation via Sampled Communication. , 2020, 4, 277-282.		14
12	Prediction-Correction Splittings for Time-Varying Optimization With Intermittent Observations. , 2020, 4, 373-378.		2
13	Partition-based multi-agent optimization in the presence of lossy and asynchronous communication. Automatica, 2020, 111, 108648.	3.0	10
14	A Data-Efficient Geometrically Inspired Polynomial Kernel for Robot Inverse Dynamic. IEEE Robotics and Automation Letters, 2020, 5, 24-31.	3.3	9
15	Nonlinear Model Predictive Control with Enhanced Actuator Model for Multi-Rotor Aerial Vehicles with Generic Designs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 1213-1247.	2.0	40
16	Smart Grid State Estimation with PMUs Time Synchronization Errors. Energies, 2020, 13, 5148.	1.6	10
17	Leveraging Demand Flexibility by Exploiting Prosumer Response to Price Signals in Microgrids. Energies, 2020, 13, 3078.	1.6	7
18	Distributed Minimization of the Power Generation Cost in Prosumer-Based Distribution Networks. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	Suboptimal Distributed LQR Design for Physically Coupled Systems. IFAC-PapersOnLine, 2020, 53, 11032-11037.	0.5	2
20	Distributed Prediction-Correction ADMM for Time-Varying Convex Optimization. , 2020, , .		7
21	On the Need for Communication for Voltage Regulation of Power Distribution Grids. IEEE Transactions on Control of Network Systems, 2019, 6, 1111-1123.	2.4	45
22	Online Nonlinear Model Predictive Control for tethered UAVs to perform a safe and constrained maneuver. , 2019, , .		7
23	Prediction-correction for Nonsmooth Time-varying Optimization via Forward-backward Envelopes. , 2019, , .		1
24	Prediction-Correction Splittings for Nonsmooth Time-Varying Optimization. , 2019, , .		5
25	Robot kinematic structure classification from time series of visual data. , 2019, , .		1
26	Model Predictive Control of Electrical Energy Storage Systems for Microgrids-Integrated Smart Buildings. , 2019, , .		2
27	Proprioceptive Robot Collision Detection through Gaussian Process Regression. , 2019, , .		2
28	Distributed Fault Detection for Interconnected Large-Scale Systems: A Scalable Plug & Play Approach. IEEE Transactions on Control of Network Systems, 2019, 6, 800-811.	2.4	37
29	Multiagent Newtonâ€“Raphson Optimization Over Lossy Networks. IEEE Transactions on Automatic Control, 2019, 64, 2983-2990.	3.6	14
30	Safe Distributed Control of Wireless Power Transfer Networks. IEEE Internet of Things Journal, 2019, 6, 1267-1275.	5.5	14
31	Distributed Partitioned Big-Data Optimization via Asynchronous Dual Decomposition. IEEE Transactions on Control of Network Systems, 2018, 5, 1910-1919.	2.4	20
32	Full-Pose Tracking Control for Aerial Robotic Systems With Laterally Bounded Input Force. IEEE Transactions on Robotics, 2018, 34, 534-541.	7.3	51
33	Is ADMM always faster than Average Consensus?. Automatica, 2018, 91, 311-315.	3.0	6
34	Partition-Based Distributed Kalman Filter With Plug and Play Features. IEEE Transactions on Control of Network Systems, 2018, 5, 560-570.	2.4	24
35	Adaptive Proportionalâ€“Integral Clock Synchronization in Wireless Sensor Networks. IEEE Transactions on Control Systems Technology, 2018, 26, 610-623.	3.2	45
36	Local and Distributed Voltage Control Algorithms in Distribution Networks. IEEE Transactions on Power Systems, 2018, 33, 1420-1430.	4.6	62

#	ARTICLE	IF	CITATIONS
37	Multi-agent distributed optimization algorithms for partition-based linear programming (LP) problems. , 2018, , .		0
38	A Partition-Based Implementation of the Relaxed ADMM for Distributed Convex Optimization over Lossy Networks. , 2018, , .		5
39	Distributed Optimization over Lossy Networks via Relaxed Peaceman-Rachford Splitting: a Robust ADMM Approach. , 2018, , .		10
40	Asynchronous Distributed Camera Network Patrolling Under Unreliable Communication. IEEE Transactions on Automatic Control, 2017, 62, 5982-5989.	3.6	10
41	Distributed Control of Wireless Power Transfer Subject to Safety Constraints. IFAC-PapersOnLine, 2017, 50, 13210-13215.	0.5	4
42	PMUs clock de-synchronization compensation for smart grid state estimation. , 2017, , .		1
43	A distributed dual-ascent approach for power control of wireless power transfer networks. , 2017, , .		7
44	Scalable monitoring of interconnected stochastic systems. , 2016, , .		7
45	The value of communication in the voltage regulation problem. , 2016, , .		32
46	Multi-robot localization via GPS and relative measurements in the presence of asynchronous and lossy communication. , 2016, , .		6
47	A master/slave control of distributed energy resources in low-voltage microgrids. , 2016, , .		11
48	A Robust Block-Jacobi Algorithm for Quadratic Programming under Lossy Communications. IFAC-PapersOnLine, 2015, 48, 126-131.	0.5	10
49	Distributed quadratic programming under asynchronous and lossy communications via Newton-Raphson consensus. , 2015, , .		10
50	Analysis of Newton-Raphson consensus for multi-agent convex optimization under asynchronous and lossy communications. , 2015, , .		26
51	Adaptive control-based clock synchronization in wireless sensor networks. , 2015, , .		18
52	Distributed Reactive Power Feedback Control for Voltage Regulation and Loss Minimization. IEEE Transactions on Automatic Control, 2015, 60, 966-981.	3.6	194
53	A distributed control algorithm for the minimization of the power generation cost in smart micro-grid. , 2014, , .		19
54	Network Clock Synchronization Based on the Second-Order Linear Consensus Algorithm. IEEE Transactions on Automatic Control, 2014, 59, 409-422.	3.6	85

#	ARTICLE	IF	CITATIONS
55	An Asynchronous Consensus-Based Algorithm for Estimation From Noisy Relative Measurements. IEEE Transactions on Control of Network Systems, 2014, 1, 283-295.	2.4	39
56	Camera Network Coordination for Intruder Detection. IEEE Transactions on Control Systems Technology, 2014, 22, 1669-1683.	3.2	24
57	A novel approach to the simulation of on-orbit rendezvous and docking maneuvers in a laboratory environment through the aid of an anthropomorphic robotic arm. , 2014, , .		3
58	Impact of battery degradation on optimal management policies of harvesting-based wireless sensor devices. , 2013, , .		7
59	Energy Management Policies for Harvesting-Based Wireless Sensor Devices with Battery Degradation. IEEE Transactions on Communications, 2013, 61, 4934-4947.	4.9	66
60	Distributed partition-based optimization via dual decomposition. , 2013, , .		21
61	A distributed control strategy for optimal reactive power flow with power constraints. , 2013, , .		10
62	Comparative analysis of synchronization strategies in sensor network with misbehaving clocks. , 2012, , .		3
63	Multi-agent perimeter patrolling subject to mobility constraints. , 2012, , .		10
64	Autonomous calibration algorithms for networks of cameras. , 2012, , .		12
65	Discrete Partitioning and Coverage Control for Gossiping Robots. IEEE Transactions on Robotics, 2012, 28, 364-378.	7.3	125
66	Robust synchronization of networks of heterogeneous double-integrators. , 2012, , .		10
67	A randomized linear algorithm for clock synchronization in multi-agent systems. , 2012, , .		9
68	Correlated energy generation and imperfect State-of-Charge knowledge in energy harvesting devices. , 2012, , .		15
69	Distributed estimation via iterative projections with application to power network monitoring. Automatica, 2012, 48, 747-758.	3.0	89
70	Accuracy and Decision Time for Sequential Decision Aggregation. Proceedings of the IEEE, 2012, 100, 687-712.	16.4	9
71	Optimal Synchronization for Networks of Noisy Double Integrators. IEEE Transactions on Automatic Control, 2011, 56, 1146-1152.	3.6	91
72	A PI controller based on asymmetric gossip communications for clocks synchronization in wireless sensors networks. , 2011, , .		33

#	ARTICLE	IF	CITATIONS
73	A distributed method for state estimation and false data detection in power networks. , 2011, , .		41
74	Distributed partitioning strategies for perimeter patrolling. , 2011, , .		17
75	Task release control for decision making queues. , 2011, , .		14
76	Dynamic partitioning and coverage control with asynchronous one-to-base-station communication. , 2011, , .		2
77	Networked clock synchronization based on second order linear consensus algorithms. , 2010, , .		24
78	Distributed Kalman filtering based on consensus strategies. IEEE Journal on Selected Areas in Communications, 2008, 26, 622-633.	9.7	413
79	Optimal strategies in the average consensus problem. , 2007, , .		27
80	Distributed Kalman filtering using consensus strategies. , 2007, , .		42
81	Communication constraints in coordinated consensus problems. , 2006, , .		29