Ruggero Carli

List of Publications by Citations

73 papers	**1,571** citations	**20** h-index	**38** g-index
82 ext. papers	**1,966** ext. citations	**4.7** avg, IF	**5.38** L-index

#	Paper	IF	Citations
73	Distributed Kalman filtering based on consensus strategies. *IEEE Journal on Selected Areas in Communications*, **2008**, 26, 622-633	14.2	332
72	Distributed Reactive Power Feedback Control for Voltage Regulation and Loss Minimization. *IEEE Transactions on Automatic Control*, **2015**, 60, 966-981	5.9	135
71	Discrete Partitioning and Coverage Control for Gossiping Robots. *IEEE Transactions on Robotics*, **2012**, 28, 364-378	6.5	78
70	Robust Visibility Surface Determination in Object Space via Plüker Coordinates. *Journal of Imaging*, **2021**, 7, 96	3.1	78
69	Optimal Synchronization for Networks of Noisy Double Integrators. *IEEE Transactions on Automatic Control*, **2011**, 56, 1146-1152	5.9	74
68	Network Clock Synchronization Based on the Second-Order Linear Consensus Algorithm. *IEEE Transactions on Automatic Control*, **2014**, 59, 409-422	5.9	68
67	Distributed estimation via iterative projections with application to power network monitoring. *Automatica*, **2012**, 48, 747-758	5.7	65
66	Energy Management Policies for Harvesting-Based Wireless Sensor Devices with Battery Degradation. *IEEE Transactions on Communications*, **2013**, 61, 4934-4947	6.9	55
65	Local and Distributed Voltage Control Algorithms in Distribution Networks. *IEEE Transactions on Power Systems*, **2018**, 33, 1420-1430	7	38
64	An Asynchronous Consensus-Based Algorithm for Estimation From Noisy Relative Measurements. *IEEE Transactions on Control of Network Systems*, **2014**, 1, 283-295	4	33
63	A distributed method for state estimation and false data detection in power networks **2011**,		33
62	Full-Pose Tracking Control for Aerial Robotic Systems With Laterally Bounded Input Force. *IEEE Transactions on Robotics*, **2018**, 34, 534-541	6.5	32
61	A PI controller based on asymmetric gossip communications for clocks synchronization in wireless sensors networks **2011**,		27
60	Distributed Kalman filtering using consensus strategies **2007**,		26
59	Adaptive Proportional-Integral Clock Synchronization in Wireless Sensor Networks. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 610-623	4.8	25
58	On the Need for Communication for Voltage Regulation of Power Distribution Grids. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 1111-1123	4	24
57	Communication constraints in coordinated consensus problems **2006**,		22

56	**2016**,		22
55	Camera Network Coordination for Intruder Detection. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1669-1683	4.8	21
54	Distributed Fault Detection for Interconnected Large-Scale Systems: A Scalable Plug & Play Approach. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 800-811	4	21
53	Analysis of Newton-Raphson consensus for multi-agent convex optimization under asynchronous and lossy communications **2015**,		20
52	Networked clock synchronization based on second order linear consensus algorithms **2010**,		19
51	Optimal strategies in the average consensus problem **2007**,		18
50	Partition-Based Distributed Kalman Filter With Plug and Play Features. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 560-570	4	16
49	Distributed partition-based optimization via dual decomposition **2013**,		16
48	Distributed partitioning strategies for perimeter patrolling **2011**,		16
47	A distributed control algorithm for the minimization of the power generation cost in smart micro-grid **2014**,		15
46	Adaptive control-based clock synchronization in wireless sensor networks **2015**,		13
45	Distributed Partitioned Big-Data Optimization via Asynchronous Dual Decomposition. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1910-1919	4	12
44	Correlated energy generation and imperfect State-of-Charge knowledge in energy harvesting devices **2012**,		12
43	Task release control for decision making queues **2011**,		12
42	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	2.9	10
41	A Robust Block-Jacobi Algorithm for Quadratic Programming under Lossy Communications. *IFAC-PapersOnLine*, **2015**, 48, 126-131	0.7	9
40	Distributed quadratic programming under asynchronous and lossy communications via Newton-Raphson consensus **2015**,		9
39	Multi-agent perimeter patrolling subject to mobility constraints **2012**,		9

38	Autonomous calibration algorithms for networks of cameras **2012**,		9
37	Multiagent Newton–Raphson Optimization Over Lossy Networks. *IEEE Transactions on Automatic Control*, **2019**, 64, 2983-2990	5.9	9
36	A randomized linear algorithm for clock synchronization in multi-agent systems **2012**,		8
35	A master/slave control of distributed energy resources in low-voltage microgrids **2016**,		8
34	Asynchronous Distributed Optimization Over Lossy Networks via Relaxed ADMM: Stability and Linear Convergence. *IEEE Transactions on Automatic Control*, **2021**, 66, 2620-2635	5.9	8
33	Accuracy and Decision Time for Sequential Decision Aggregation. *Proceedings of the IEEE*, **2012**, 100, 687-712	14.3	7
32	A distributed control strategy for optimal reactive power flow with power constraints **2013**,		7
31	Scalable monitoring of interconnected stochastic systems **2016**,		7
30	Impact of battery degradation on optimal management policies of harvesting-based wireless sensor devices **2013**,		6
29	Robust synchronization of networks of heterogeneous double-integrators **2012**,		6
28	Multi-robot localization via GPS and relative measurements in the presence of asynchronous and lossy communication **2016**,		6
27	Safe Distributed Control of Wireless Power Transfer Networks. *IEEE Internet of Things Journal*, **2019**, 6, 1267-1275	10.7	6
26	Distributed Optimization over Lossy Networks via Relaxed Peaceman-Rachford Splitting: a Robust ADMM Approach **2018**,		6
25	Leveraging Demand Flexibility by Exploiting Prosumer Response to Price Signals in Microgrids. *Energies*, **2020**, 13, 3078	3.1	5
24	**2017**,		5
23	Distributed Minimization of the Power Generation Cost in Prosumer-Based Distribution Networks **2020**,		5
22	Smart Grid State Estimation with PMUs Time Synchronization Errors. *Energies*, **2020**, 13, 5148	3.1	5
21	Cooperative Aerial Load Transportation via Sampled Communication **2020**, 4, 277-282		5

#	Title	Impact	Citations
20	Model Predictive Control for Efficient Management of Energy Resources in Smart Buildings. *Energies*, **2021**, 14, 5592	3.1	5
19	Asynchronous Distributed Camera Network Patrolling Under Unreliable Communication. *IEEE Transactions on Automatic Control*, **2017**, 62, 5982-5989	5.9	4
18	Partition-based multi-agent optimization in the presence of lossy and asynchronous communication. *Automatica*, **2020**, 111, 108648	5.7	4
17	Is ADMM always faster than Average Consensus?. *Automatica*, **2018**, 91, 311-315	5.7	3
16	Prediction-Correction Splittings for Nonsmooth Time-Varying Optimization **2019**,		3
15	A Partition-Based Implementation of the Relaxed ADMM for Distributed Convex Optimization over Lossy Networks **2018**,		3
14	Online Nonlinear Model Predictive Control for tethered UAVs to perform a safe and constrained maneuver **2019**,		2
13	Prediction-Correction Splittings for Time-Varying Optimization With Intermittent Observations **2020**, 4, 373-378		2
12	A Data-Efficient Geometrically Inspired Polynomial Kernel for Robot Inverse Dynamic. *IEEE Robotics and Automation Letters*, **2020**, 5, 24-31	4.2	2
11	Kernel-based methods for Volterra series identification. *Automatica*, **2021**, 129, 109686	5.7	2
10	Distributed Control of Wireless Power Transfer Subject to Safety Constraints. *IFAC-PapersOnLine*, **2017**, 50, 13210-13215	0.7	1
9	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**,		1
8	Comparative analysis of synchronization strategies in sensor network with misbehaving clocks **2012**,		1
7	Feedback Power Cost Optimization in Power Distribution Networks with Prosumers. *IEEE Transactions on Control of Network Systems*, **2022**, 1-1	4	1
6	Robot kinematic structure classification from time series of visual data **2019**,		1
5	Autonomous Learning of the Robot Kinematic Model. *IEEE Transactions on Robotics*, **2021**, 37, 877-892	6.5	1
4	Suboptimal Distributed LQR Design for Physically Coupled Systems. *IFAC-PapersOnLine*, **2020**, 53, 11032-11037		0
3	Remote MPC for Tracking Over Lossy Networks **2022**, 6, 1040-1045		0

2   Weighted Shared-Autonomy with Assistance-to-Target and Collision Avoidance for Intelligent
     Assistive Robotics. *Lecture Notes in Networks and Systems*, **2022**, 580-593   0.5

1   A novel bound on the convergence rate of ADMM for distributed optimization. *Automatica*, **2022**, 110403   3.7