

Ruggero Carli

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,162
citations

430874

18
h-index

345221

36
g-index

82
all docs

82
docs citations

82
times ranked

1917
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Kalman filtering based on consensus strategies. IEEE Journal on Selected Areas in Communications, 2008, 26, 622-633.	14.0	413
2	Distributed Reactive Power Feedback Control for Voltage Regulation and Loss Minimization. IEEE Transactions on Automatic Control, 2015, 60, 966-981.	5.7	194
3	Discrete Partitioning and Coverage Control for Gossiping Robots. IEEE Transactions on Robotics, 2012, 28, 364-378.	10.3	125
4	Optimal Synchronization for Networks of Noisy Double Integrators. IEEE Transactions on Automatic Control, 2011, 56, 1146-1152.	5.7	91
5	Distributed estimation via iterative projections with application to power network monitoring. Automatica, 2012, 48, 747-758.	5.0	89
6	Network Clock Synchronization Based on the Second-Order Linear Consensus Algorithm. IEEE Transactions on Automatic Control, 2014, 59, 409-422.	5.7	85
7	Energy Management Policies for Harvesting-Based Wireless Sensor Devices with Battery Degradation. IEEE Transactions on Communications, 2013, 61, 4934-4947.	7.8	66
8	Local and Distributed Voltage Control Algorithms in Distribution Networks. IEEE Transactions on Power Systems, 2018, 33, 1420-1430.	6.5	62
9	Full-Pose Tracking Control for Aerial Robotic Systems With Laterally Bounded Input Force. IEEE Transactions on Robotics, 2018, 34, 534-541.	10.3	51
10	Adaptive Proportional-Integral Clock Synchronization in Wireless Sensor Networks. IEEE Transactions on Control Systems Technology, 2018, 26, 610-623.	5.2	45
11	On the Need for Communication for Voltage Regulation of Power Distribution Grids. IEEE Transactions on Control of Network Systems, 2019, 6, 1111-1123.	3.7	45
12	Distributed Kalman filtering using consensus strategies. , 2007, , .		42
13	A distributed method for state estimation and false data detection in power networks. , 2011, , .		41
14	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.	3.4	40
15	An Asynchronous Consensus-Based Algorithm for Estimation From Noisy Relative Measurements. IEEE Transactions on Control of Network Systems, 2014, 1, 283-295.	3.7	39
16	Distributed Fault Detection for Interconnected Large-Scale Systems: A Scalable Plug & Play Approach. IEEE Transactions on Control of Network Systems, 2019, 6, 800-811.	3.7	37
17	Asynchronous Distributed Optimization Over Lossy Networks via Relaxed ADMM: Stability and Linear Convergence. IEEE Transactions on Automatic Control, 2021, 66, 2620-2635.	5.7	37
18	A PI controller based on asymmetric gossip communications for clocks synchronization in wireless sensors networks. , 2011, , .		33

#	ARTICLE	IF	CITATIONS
19	The value of communication in the voltage regulation problem. , 2016, , .		32
20	Communication constraints in coordinated consensus problems. , 2006, , .		29
21	Optimal strategies in the average consensus problem. , 2007, , .		27
22	Analysis of Newton-Raphson consensus for multi-agent convex optimization under asynchronous and lossy communications. , 2015, , .		26
23	Networked clock synchronization based on second order linear consensus algorithms. , 2010, , .		24
24	Camera Network Coordination for Intruder Detection. IEEE Transactions on Control Systems Technology, 2014, 22, 1669-1683.	5.2	24
25	Partition-Based Distributed Kalman Filter With Plug and Play Features. IEEE Transactions on Control of Network Systems, 2018, 5, 560-570.	3.7	24
26	Distributed partition-based optimization via dual decomposition. , 2013, , .		21
27	Distributed Partitioned Big-Data Optimization via Asynchronous Dual Decomposition. IEEE Transactions on Control of Network Systems, 2018, 5, 1910-1919.	3.7	20
28	A distributed control algorithm for the minimization of the power generation cost in smart micro-grid. , 2014, , .		19
29	Adaptive control-based clock synchronization in wireless sensor networks. , 2015, , .		18
30	Distributed partitioning strategies for perimeter patrolling. , 2011, , .		17
31	Correlated energy generation and imperfect State-of-Charge knowledge in energy harvesting devices. , 2012, , .		15
32	Task release control for decision making queues. , 2011, , .		14
33	Multiagent Newton-Raphson Optimization Over Lossy Networks. IEEE Transactions on Automatic Control, 2019, 64, 2983-2990.	5.7	14
34	Safe Distributed Control of Wireless Power Transfer Networks. IEEE Internet of Things Journal, 2019, 6, 1267-1275.	8.7	14
35	Cooperative Aerial Load Transportation via Sampled Communication. , 2020, 4, 277-282.		14
36	Autonomous calibration algorithms for networks of cameras. , 2012, , .		12

#	ARTICLE	IF	CITATIONS
37	A master/slave control of distributed energy resources in low-voltage microgrids. , 2016, , .		11
38	Kernel-based methods for Volterra series identification. Automatica, 2021, 129, 109686.	5.0	11
39	Multi-agent perimeter patrolling subject to mobility constraints. , 2012, , .		10
40	Robust synchronization of networks of heterogeneous double-integrators. , 2012, , .		10
41	A distributed control strategy for optimal reactive power flow with power constraints. , 2013, , .		10
42	A Robust Block-Jacobi Algorithm for Quadratic Programming under Lossy Communications. IFAC-PapersOnLine, 2015, 48, 126-131.	0.9	10
43	Distributed quadratic programming under asynchronous and lossy communications via Newton-Raphson consensus. , 2015, , .		10
44	Asynchronous Distributed Camera Network Patrolling Under Unreliable Communication. IEEE Transactions on Automatic Control, 2017, 62, 5982-5989.	5.7	10
45	Distributed Optimization over Lossy Networks via Relaxed Peaceman-Rachford Splitting: a Robust ADMM Approach. , 2018, , .		10
46	Partition-based multi-agent optimization in the presence of lossy and asynchronous communication. Automatica, 2020, 111, 108648.	5.0	10
47	Smart Grid State Estimation with PMUs Time Synchronization Errors. Energies, 2020, 13, 5148.	3.1	10
48	Model Predictive Control for Efficient Management of Energy Resources in Smart Buildings. Energies, 2021, 14, 5592.	3.1	10
49	A randomized linear algorithm for clock synchronization in multi-agent systems. , 2012, , .		9
50	Accuracy and Decision Time for Sequential Decision Aggregation. Proceedings of the IEEE, 2012, 100, 687-712.	21.3	9
51	A Data-Efficient Geometrically Inspired Polynomial Kernel for Robot Inverse Dynamic. IEEE Robotics and Automation Letters, 2020, 5, 24-31.	5.1	9
52	Impact of battery degradation on optimal management policies of harvesting-based wireless sensor devices. , 2013, , .		7
53	Scalable monitoring of interconnected stochastic systems. , 2016, , .		7
54	A distributed dual-ascent approach for power control of wireless power transfer networks. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
55	Online Nonlinear Model Predictive Control for tethered UAVs to perform a safe and constrained maneuver. , 2019, , .		7
56	Leveraging Demand Flexibility by Exploiting Prosumer Response to Price Signals in Microgrids. Energies, 2020, 13, 3078.	3.1	7
57	Distributed Prediction-Correction ADMM for Time-Varying Convex Optimization. , 2020, , .		7
58	Multi-robot localization via GPS and relative measurements in the presence of asynchronous and lossy communication. , 2016, , .		6
59	Is ADMM always faster than Average Consensus?. Automatica, 2018, 91, 311-315.	5.0	6
60	Model-Based Policy Search Using Monte Carlo Gradient Estimation With Real Systems Application. IEEE Transactions on Robotics, 2022, 38, 3879-3898.	10.3	6
61	A Partition-Based Implementation of the Relaxed ADMM for Distributed Convex Optimization over Lossy Networks. , 2018, , .		5
62	Prediction-Correction Splittings for Nonsmooth Time-Varying Optimization. , 2019, , .		5
63	Autonomous Learning of the Robot Kinematic Model. IEEE Transactions on Robotics, 2021, 37, 877-892.	10.3	5
64	Distributed Minimization of the Power Generation Cost in Prosumer-Based Distribution Networks. , 2020, , .		5
65	Distributed Control of Wireless Power Transfer Subject to Safety Constraints. IFAC-PapersOnLine, 2017, 50, 13210-13215.	0.9	4
66	Remote MPC for Tracking Over Lossy Networks. , 2022, 6, 1040-1045.		4
67	Feedback Power Cost Optimization in Power Distribution Networks With Prosumers. IEEE Transactions on Control of Network Systems, 2022, 9, 1633-1644.	3.7	4
68	Comparative analysis of synchronization strategies in sensor network with misbehaving clocks. , 2012, , .		3
69	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
70	Dynamic partitioning and coverage control with asynchronous one-to-base-station communication. , 2011, , .		2
71	Model Predictive Control of Electrical Energy Storage Systems for Microgrids-Integrated Smart Buildings. , 2019, , .		2
72	Proprioceptive Robot Collision Detection through Gaussian Process Regression. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
73	Prediction-Correction Splittings for Time-Varying Optimization With Intermittent Observations. , 2020, 4, 373-378.		2
74	Suboptimal Distributed LQR Design for Physically Coupled Systems. IFAC-PapersOnLine, 2020, 53, 11032-11037.	0.9	2
75	Control of Mechanical Systems via Feedback Linearization Based on Black-Box Gaussian Process Models. , 2021, , .		2
76	PMUs clock de-synchronization compensation for smart grid state estimation. , 2017, , .		1
77	Prediction-correction for Nonsmooth Time-varying Optimization via Forward-backward Envelopes. , 2019, , .		1
78	Robot kinematic structure classification from time series of visual data. , 2019, , .		1
79	A novel bound on the convergence rate of ADMM for distributed optimization. Automatica, 2022, 142, 110403.	5.0	1
80	Multi-agent distributed optimization algorithms for partition-based linear programming (LP) problems. , 2018, , .		0
81	Robust Visibility Surface Determination in Object Space via Plücker Coordinates. Journal of Imaging, 2021, 7, 96.	3.0	0