

Mauro Franceschelli

List of Publications by Year in descending order

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74
papers

1,077
citations

623734

14
h-index

552781

26
g-index

74
all docs

74
docs citations

74
times ranked

805
citing authors

#	ARTICLE	IF	CITATIONS
1	Decentralized estimation of Laplacian eigenvalues in multi-agent systems. Automatica, 2013, 49, 1031-1036.	5.0	117
2	Finite-Time Consensus With Disturbance Rejection by Discontinuous Local Interactions in Directed Graphs. IEEE Transactions on Automatic Control, 2015, 60, 1133-1138.	5.7	98
3	Distributed Averaging in Sensor Networks Based on Broadcast Gossip Algorithms. IEEE Sensors Journal, 2011, 11, 808-817.	4.7	67
4	Finite-Time Consensus on the Median Value With Robustness Properties. IEEE Transactions on Automatic Control, 2017, 62, 1652-1667.	5.7	60
5	Decentralized Laplacian eigenvalues estimation for networked multi-agent systems. , 2009, , .		52
6	Finite-time consensus for switching network topologies with disturbances. Nonlinear Analysis: Hybrid Systems, 2013, 10, 83-93.	3.5	50
7	Gossip algorithms for heterogeneous multi-vehicle routing problems. Nonlinear Analysis: Hybrid Systems, 2013, 10, 156-174.	3.5	39
8	Motion probes for fault detection and recovery in networked control systems. , 2008, , .		32
9	A Gossip-Based Algorithm for Discrete Consensus Over Heterogeneous Networks. IEEE Transactions on Automatic Control, 2010, 55, 1244-1249.	5.7	27
10	Robust reconstruction of the discrete state for a class of nonlinear uncertain switched systems. Nonlinear Analysis: Hybrid Systems, 2011, 5, 220-232.	3.5	25
11	On agreement problems with gossip algorithms in absence of common reference frames. , 2010, , .		22
12	Finite-time consensus for a network of perturbed double integrators by second-order sliding mode technique. , 2013, , .		22
13	Quantized consensus in Hamiltonian graphs. Automatica, 2011, 47, 2495-2503.	5.0	20
14	Gossip-Based Centroid and Common Reference Frame Estimation in Multiagent Systems. IEEE Transactions on Robotics, 2014, 30, 524-531.	10.3	20
15	Stability of Open Multiagent Systems and Applications to Dynamic Consensus. IEEE Transactions on Automatic Control, 2021, 66, 2326-2331.	5.7	20
16	Finite-time consensus on the median value by discontinuous control. , 2014, , .		19
17	Observability and controllability verification in multi-agent systems through decentralized Laplacian spectrum estimation. , 2010, , .		17
18	A Duality-Based Approach for Distributed Min-Max Optimization. IEEE Transactions on Automatic Control, 2019, 64, 2559-2566.	5.7	17

#	ARTICLE	IF	CITATIONS
19	Load balancing over heterogeneous networks with gossip-based algorithms. , 2009, , .		16
20	Proportional Dynamic Consensus in Open Multi-Agent Systems. , 2018, , .		16
21	Multi-Agent Coordination of Thermostatically Controlled Loads by Smart Power Sockets for Electric Demand Side Management. IEEE Transactions on Control Systems Technology, 2021, 29, 731-743.	5.2	16
22	Sliding Mode-Based Robustification of Consensus and Distributed Optimization Control Protocols. IEEE Transactions on Automatic Control, 2021, 66, 1207-1214.	5.7	16
23	Discrete consensus in networks with constrained capacity. , 2013, , .		15
24	Recent advances in sliding-mode based consensus strategies. , 2014, , .		15
25	Multi-stage discrete time and randomized dynamic average consensus. Automatica, 2019, 99, 69-81.	5.0	15
26	Dynamic Resilient Containment Control in Multirobot Systems. IEEE Transactions on Robotics, 2022, 38, 57-70.	10.3	14
27	Dynamic Min and Max Consensus and Size Estimation of Anonymous Multiagent Networks. IEEE Transactions on Automatic Control, 2023, 68, 202-213.	5.7	13
28	Load balancing on networks with gossip-based distributed algorithms. , 2007, , .		12
29	Fast discrete consensus based on gossip for makespan minimization in networked systems. Automatica, 2015, 56, 60-69.	5.0	12
30	Decentralized stabilization of heterogeneous linear multi-agent systems. , 2010, , .		11
31	Deployment of Applications in Wireless Sensor Networks: A Gossip-Based Lifetime Maximization Approach. IEEE Transactions on Control Systems Technology, 2016, 24, 1828-1836.	5.2	10
32	Dynamic Consensus on the Median Value in Open Multi-Agent Systems. , 2019, , .		10
33	A duality-based approach for distributed min-max optimization with application to demand side management. , 2016, , .		9
34	Coordination of electric thermal systems for distributed demand-side management: A gossip-based cooperative approach. , 2016, , .		9
35	A decentralized lifetime maximization algorithm for distributed applications in Wireless Sensor Networks. , 2012, , .		8
36	Finite-time consensus with disturbance attenuation for directed switching network topologies by discontinuous local interactions. , 2013, , .		8

#	ARTICLE	IF	CITATIONS
37	Integral sliding modes for the robustification of consensus-based multi-agent based systems. , 2016, , .		8
38	A discontinuous algorithm for distributed convex optimization. , 2016, , .		8
39	A Heuristic approach for Online Distributed optimization of Multi-Agent Networks of Smart Sockets and Thermostatically Controlled Loads based on Dynamic Average Consensus. , 2018, , .		8
40	Multi-stage discrete time dynamic average consensus. , 2016, , .		7
41	A nonlinear Perron-Frobenius approach for stability and consensus of discrete-time multi-agent systems. Automatica, 2020, 118, 109025.	5.0	7
42	Constrained invariant motions for networked multi-agent systems. , 2009, , .		6
43	Decentralized fault diagnosis for sensor networks. , 2009, , .		6
44	Decentralized centroid estimation for multi-agent systems in absence of a common reference frame: A convergence analysis. , 2012, , .		6
45	Consensus in multi-agent systems with second-order dynamics and non-periodic sampled-data exchange. , 2014, , .		6
46	Consensus of second-order multi-agent systems with time delays and slow switching topology. , 2013, , .		5
47	Robust distributed consensus on the median value for networks of heterogeneously perturbed agents. , 2016, , .		5
48	Delta modulation (Δ) control technique. Control Engineering Practice, 2019, 92, 104129.	5.5	5
49	A Discrete Event Formulation for Multi-Robot Collision Avoidance on Pre-planned Trajectories. IEEE Access, 2020, , 1-1.	4.2	5
50	Decentralized centroid estimation for multi-agent systems in absence of any common reference frame. , 2009, , .		4
51	Distributed Fiedler Vector Estimation With Application to Desynchronization of Harmonic Oscillator Networks. , 2021, 5, 659-664.		4
52	Secure rendezvous and static containment in multi-agent systems with adversarial intruders. Automatica, 2022, 143, 110456.	5.0	4
53	A consensus algorithm for common reference frame estimation in networked multi-agent systems. , 2014, , .		3
54	Gossip based asynchronous and randomized distributed task assignment with guaranteed performance on heterogeneous networks. Nonlinear Analysis: Hybrid Systems, 2017, 26, 292-306.	3.5	3

#	ARTICLE	IF	CITATIONS
55	Resilient Constrained Optimization in Multi-Agent Systems With Improved Guarantee on Approximation Bounds. , 2022, 6, 2659-2664.		3
56	Distributed Mode Computation in Open Multi-Agent Systems. , 2022, 6, 3481-3486.		3
57	A Gossip Algorithm for Heterogeneous Multi-Vehicle Routing Problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 325-332.	0.4	2
58	Finite-Time Consensus based Clock Synchronization by Discontinuous Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 172-177.	0.4	2
59	Lyapunov-Free Analysis for Consensus of Nonlinear Discrete- Time Multi-Agent Systems. , 2018, , .		2
60	VIRTUALENERGY: A project for testing ICT for virtual energy management. , 2018, , .		2
61	Robust Containment Control in Multi-Agent Systems with Common Coordinate Frames and Bearing Angle Measurements. , 2019, , .		2
62	A Distributed Optimization and Control Framework for a Network of Constraint Coupled Residential BESSs. , 2021, , .		2
63	Hamiltonian quantized gossip. , 2009, , .		1
64	A Gossip Based Heuristic Algorithm for Heterogeneous Multi-Vehicle Routing Problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 73-78.	0.4	1
65	Robust common reference estimation and formation control for multi-agent systems. , 2012, , .		1
66	Consensus on the Average in Arbitrary Directed Network Topologies with Time-Delays*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 342-347.	0.4	1
67	Consensus in multi-agent systems with non-periodic sampled-data exchange and uncertain network topology. , 2014, , .		1
68	Simulation Study on the Convergence Time of a Discrete Consensus Algorithm for Distributed Task Assignment. , 2015, , .		1
69	Distributed Task Assignment Based on Gossip with Guaranteed Performance on Heterogeneous Networks**The research leading to these results has received funding from Region Sardinia, LR 7/2007 (call 2010) under project SIAR (CRP24709) and from Italian grant SIR "Independence of young Researchers", project CoNetDomeSys, code RBS114OF6H, funded by the Italian Ministry of Research and Education (MUR). IFAC PapersOnLine, 2015, 48, 218-223.	0.9	1
70	Retaining Connectivity In Mobile Communication Mesh Networks. IFAC-PapersOnLine, 2017, 50, 800-807.	0.9	1
71	High Accuracy Sigma-Delta Modulator implementations via Suboptimal Quasi-Sliding Mode Control. , 2018, , .		1
72	Discrete-Time Dynamic Consensus on the Max Value. Lecture Notes in Control and Information Sciences - Proceedings, 2022, , 367-383.	0.1	1

#	ARTICLE	IF	CITATIONS
73	Online distributed synchronizability check for networks of interconnected systems. , 2012, , .		0
74	Fast Discrete Consensus Based on Gossip for Makespan Optimization in Networked Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7418-7423.	0.4	0