

Mauro Franceschelli

List of Publications by Year in descending order

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74
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805
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Min and Max Consensus and Size Estimation of Anonymous Multiagent Networks. IEEE Transactions on Automatic Control, 2023, 68, 202-213.	5.7	13
2	Dynamic Resilient Containment Control in Multirobot Systems. IEEE Transactions on Robotics, 2022, 38, 57-70.	10.3	14
3	Resilient Constrained Optimization in Multi-Agent Systems With Improved Guarantee on Approximation Bounds. , 2022, 6, 2659-2664.		3
4	Discrete-Time Dynamic Consensus on the Max Value. Lecture Notes in Control and Information Sciences - Proceedings, 2022, , 367-383.	0.1	1
5	Distributed Mode Computation in Open Multi-Agent Systems. , 2022, 6, 3481-3486.		3
6	Secure rendezvous and static containment in multi-agent systems with adversarial intruders. Automatica, 2022, 143, 110456.	5.0	4
7	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
8	Sliding Mode-Based Robustification of Consensus and Distributed Optimization Control Protocols. IEEE Transactions on Automatic Control, 2021, 66, 1207-1214.	5.7	16
9	Stability of Open Multiagent Systems and Applications to Dynamic Consensus. IEEE Transactions on Automatic Control, 2021, 66, 2326-2331.	5.7	20
10	Distributed Fiedler Vector Estimation With Application to Desynchronization of Harmonic Oscillator Networks. , 2021, 5, 659-664.		4
11	A Distributed Optimization and Control Framework for a Network of Constraint Coupled Residential BESSs. , 2021, , .		2
12	A Discrete Event Formulation for Multi-Robot Collision Avoidance on Pre-planned Trajectories. IEEE Access, 2020, , 1-1.	4.2	5
13	A nonlinear Perron-Frobenius approach for stability and consensus of discrete-time multi-agent systems. Automatica, 2020, 118, 109025.	5.0	7
14	Delta modulation (Δ) control technique. Control Engineering Practice, 2019, 92, 104129.	5.5	5
15	Dynamic Consensus on the Median Value in Open Multi-Agent Systems. , 2019, , .		10
16	Robust Containment Control in Multi-Agent Systems with Common Coordinate Frames and Bearing Angle Measurements. , 2019, , .		2
17	A Duality-Based Approach for Distributed Min-Max Optimization. IEEE Transactions on Automatic Control, 2019, 64, 2559-2566.	5.7	17
18	Multi-stage discrete time and randomized dynamic average consensus. Automatica, 2019, 99, 69-81.	5.0	15

#	ARTICLE	IF	CITATIONS
19	Lyapunov-Free Analysis for Consensus of Nonlinear Discrete-Time Multi-Agent Systems. , 2018, , .		2
20	Proportional Dynamic Consensus in Open Multi-Agent Systems. , 2018, , .		16
21	VIRTUALENERGY: A project for testing ICT for virtual energy management. , 2018, , .		2
22	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
23	High Accuracy Sigma-Delta Modulator implementations via Suboptimal Quasi-Sliding Mode Control. , 2018, , .		1
24	Finite-Time Consensus on the Median Value With Robustness Properties. IEEE Transactions on Automatic Control, 2017, 62, 1652-1667.	5.7	60
25	Retaining Connectivity In Mobile Communication Mesh Networks. IFAC-PapersOnLine, 2017, 50, 800-807.	0.9	1
26	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
27	Robust distributed consensus on the median value for networks of heterogeneously perturbed agents. , 2016, , .		5
28	Multi-stage discrete time dynamic average consensus. , 2016, , .		7
29	A duality-based approach for distributed min-max optimization with application to demand side management. , 2016, , .		9
30	Coordination of electric thermal systems for distributed demand-side management: A gossip-based cooperative approach. , 2016, , .		9
31	Integral sliding modes for the robustification of consensus-based multi-agent based systems. , 2016, , .		8
32	A discontinuous algorithm for distributed convex optimization. , 2016, , .		8
33	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
34	Simulation Study on the Convergence Time of a Discrete Consensus Algorithm for Distributed Task Assignment. , 2015, , .		1
35	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 RBSI14OF6H, funded by the Italian Ministry of Research and Education (MIUR). IFAC-PapersOnLine, 2015, 48, 218-223.	0.9	1
36	Fast discrete consensus based on gossip for makespan minimization in networked systems. Automatica, 2015, 56, 60-69.	5.0	12

#	ARTICLE	IF	CITATIONS
37	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
38	Consensus in multi-agent systems with second-order dynamics and non-periodic sampled-data exchange. , 2014, , .		6
39	Consensus in multi-agent systems with non-periodic sampled-data exchange and uncertain network topology. , 2014, , .		1
40	Finite-time consensus on the median value by discontinuous control. , 2014, , .		19
41	Gossip-Based Centroid and Common Reference Frame Estimation in Multiagent Systems. IEEE Transactions on Robotics, 2014, 30, 524-531.	10.3	20
42	Recent advances in sliding-mode based consensus strategies. , 2014, , .		15
43	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
44	A consensus algorithm for common reference frame estimation in networked multi-agent systems. , 2014, , .		3
45	Finite-time consensus for switching network topologies with disturbances. Nonlinear Analysis: Hybrid Systems, 2013, 10, 83-93.	3.5	50
46	Consensus of second-order multi-agent systems with time delays and slow switching topology. , 2013, , .		5
47	Gossip algorithms for heterogeneous multi-vehicle routing problems. Nonlinear Analysis: Hybrid Systems, 2013, 10, 156-174.	3.5	39
48	Decentralized estimation of Laplacian eigenvalues in multi-agent systems. Automatica, 2013, 49, 1031-1036.	5.0	117
49	Finite-time consensus for a network of perturbed double integrators by second-order sliding mode technique. , 2013, , .		22
50	Finite-time consensus with disturbance attenuation for directed switching network topologies by discontinuous local interactions. , 2013, , .		8
51	Discrete consensus in networks with constrained capacity. , 2013, , .		15
52	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
53	Decentralized centroid estimation for multi-agent systems in absence of a common reference frame: A convergence analysis. , 2012, , .		6
54	A decentralized lifetime maximization algorithm for distributed applications in Wireless Sensor Networks. , 2012, , .		8

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	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
58	Online distributed synchronizability check for networks of interconnected systems. , 2012, , .		0
59	Robust common reference estimation and formation control for multi-agent systems. , 2012, , .		1
60	Distributed Averaging in Sensor Networks Based on Broadcast Gossip Algorithms. IEEE Sensors Journal, 2011, 11, 808-817.	4.7	67
61	Quantized consensus in Hamiltonian graphs. Automatica, 2011, 47, 2495-2503.	5.0	20
62	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
63	Observability and controllability verification in multi-agent systems through decentralized Laplacian spectrum estimation. , 2010, , .		17
64	On agreement problems with gossip algorithms in absence of common reference frames. , 2010, , .		22
65	Decentralized stabilization of heterogeneous linear multi-agent systems. , 2010, , .		11
66	A Gossip-Based Algorithm for Discrete Consensus Over Heterogeneous Networks. IEEE Transactions on Automatic Control, 2010, 55, 1244-1249.	5.7	27
67	Decentralized centroid estimation for multi-agent systems in absence of any common reference frame. , 2009, , .		4
68	Load balancing over heterogeneous networks with gossip-based algorithms. , 2009, , .		16
69	Constrained invariant motions for networked multi-agent systems. , 2009, , .		6
70	Decentralized Laplacian eigenvalues estimation for networked multi-agent systems. , 2009, , .		52
71	Decentralized fault diagnosis for sensor networks. , 2009, , .		6
72	Hamiltonian quantized gossip. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
73	Motion probes for fault detection and recovery in networked control systems. , 2008, , .		32
74	Load balancing on networks with gossip-based distributed algorithms. , 2007, , .		12