

# Sabato Manfredi

## List of Publications by Year in descending order

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76  
papers

671  
citations

623574

14  
h-index

677027

22  
g-index

77  
all docs

77  
docs citations

77  
times ranked

548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a multi-hop dynamic consensus algorithm over wireless sensor networks. Control Engineering Practice, 2013, 21, 381-394.	3.2	48
2	A Distributed Control Law for Load Balancing in Content Delivery Networks. IEEE/ACM Transactions on Networking, 2013, 21, 55-68.	2.6	45
3	Mobility and Congestion in Dynamical Multilayer Networks with Finite Storage Capacity. Physical Review Letters, 2018, 120, 068301.	2.9	44
4	Synchronization of Networks of Non-Identical Chua's Circuits: Analysis and Experiments. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1029-1041.	3.5	38
5	Congestion control for differentiated healthcare service delivery in emerging heterogeneous wireless body area networks. IEEE Wireless Communications, 2014, 21, 81-90.	6.6	30
6	Reliable and energy-efficient cooperative routing algorithm for wireless monitoring systems. IET Wireless Sensor Systems, 2012, 2, 128.	1.3	28
7	Design, validation and experimental testing of a robust AQM control. Control Engineering Practice, 2009, 17, 394-407.	3.2	25
8	Frozen state conditions for exponential consensus of time-varying cooperative nonlinear networks. Automatica, 2016, 64, 182-189.	3.0	19
9	Robust output feedback active queue management control in TCP networks. , 2004, , .		18
10	Decentralized Queue Balancing and Differentiated Service Scheme Based on Cooperative Control Concept. IEEE Transactions on Industrial Informatics, 2014, 10, 586-593.	7.2	18
11	Necessary and sufficient conditions for consensus in nonlinear monotone networks with unilateral interactions. Automatica, 2017, 77, 51-60.	3.0	18
12	Decentralized Control Algorithm for Fast Monitoring and Efficient Energy Consumption in Energy Harvesting Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2017, 13, 1513-1520.	7.2	17
13	Ultracapacitor-based distributed energy resources to support time-varying smart-grid power flows. , 2012, , .		16
14	An algorithm for fast rendezvous seeking of wireless networked robotic systems. Ad Hoc Networks, 2013, 11, 1942-1950.	3.4	16
15	Reduction-based robust active queue management control. Control Engineering Practice, 2007, 15, 177-186.	3.2	15
16	A theoretical analysis of multi-hop consensus algorithms for wireless networks: Trade off among reliability, responsiveness and delay tolerance. Ad Hoc Networks, 2014, 13, 234-244.	3.4	15
17	Adaptive FOCV-based Control Scheme to improve the MPP Tracking Performance: an experimental validation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4967-4971.	0.4	15
18	A robust approach to active queue management control in networks. , 0, , .		14

#	ARTICLE	IF	CITATIONS
19	A design approach of the solar harvesting control system for wireless sensor node. Control Engineering Practice, 2015, 44, 45-54.	3.2	13
20	A reliable cooperative and distributed management for wireless industrial monitoring and control. International Journal of Robust and Nonlinear Control, 2010, 20, 123-139.	2.1	12
21	A consensus based rate control scheme for ATM networks. International Journal of Control, Automation and Systems, 2012, 10, 817-823.	1.6	12
22	Modular experimental setup for real-time analysis of emergent behavior in networks of Chua's circuits. International Journal of Circuit Theory and Applications, 2016, 44, 1551-1571.	1.3	12
23	Distributed management for load balancing in Content Delivery Networks. , 2010, , .		11
24	Frozen state conditions for asymptotic consensus of time-varying cooperative nonlinear networks. , 2013, , .		11
25	Effects of Packet Losses on Formation Control of Unmanned Aerial Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1234-1240.	0.4	10
26	Small world effects in networks: an engineering interpretation. , 0, , .		8
27	A Criterion for Exponential Consensus of Time-Varying Non-Monotone Nonlinear Networks. IEEE Transactions on Automatic Control, 2017, 62, 2483-2489.	3.6	8
28	A Petri Net approach to consensus in networks with joint-agent interactions. Automatica, 2019, 110, 108466.	3.0	8
29	On global and local consensusability of multi-agent systems with input constraint and uncertain initial conditions. , 2013, , .		7
30	Robust scalable stabilisability conditions for large-scale heterogeneous multi-agent systems with uncertain nonlinear interactions: towards a distributed computing architecture. International Journal of Control, 2016, 89, 1203-1213.	1.2	7
31	Analysis and effects of retransmission mechanisms on data network performance. , 0, , .		6
32	Model predictive control strategy based on differential discrete particle swarm optimization. , 2010, , .		6
33	Stability and Convergence of a Message-Loss-Tolerant Rendezvous Algorithm for Wireless Networked Robot Systems. IEEE Transactions on Control of Network Systems, 2020, 7, 1103-1114.	2.4	6
34	A Framework for Self-Enforced Optimal Interaction Between Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6152-6161.	4.7	6
35	Optimised balancing algorithm for content delivery networks. IET Communications, 2012, 6, 733.	1.5	5
36	A PV Model-based Design of a MPPT Controller for Energy Harvested Wireless Sensor Nodes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 101-106.	0.4	5

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37	Robust pinning control of heterogeneous complex networks with jointly connected topologies and time-varying parametric uncertainty. <i>International Journal of Control</i> , 2018, 91, 1183-1194.	1.2	5
38	Cooperative rate control in ATM networks. , 2011, , .		4
39	On the use of ultracapacitor to support microgrid photovoltaic power system. , 2011, , .		4
40	An implementation of a smart maximum power point tracking controller to harvest renewable energy of wireless sensor nodes. , 2013, , .		4
41	Evaluation of Energy Efficiency-Reconstruction Error Trade-Off in the Co-design of Compressive Sensing Techniques for Wireless Lossy Sensor Networks. <i>International Journal of Wireless Information Networks</i> , 2015, 22, 386-398.	1.8	4
42	Distributed control for energy-efficient and fast consensus in wireless sensor networks. <i>International Journal of Control</i> , 2017, 90, 1090-1103.	1.2	4
43	Asymptotic Consensus on the Average of a Field for Time-Varying Nonlinear Networks Under Almost Periodic Connectivity. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 2389-2404.	3.6	4
44	Performance of Robust AQM controllers in multibottleneck scenarios. , 0, , .		3
45	An AQM Routing Control for reducing congestion in Communication Networks. , 0, , .		3
46	Consensus of time-varying nonlinear non-autonomous networks with application to field sampling by mobile robots. , 2015, , .		3
47	On exponential consensus for time-varying non-cooperative nonlinear networks. , 2015, , .		3
48	A Two-Layer Controller Scheme for Efficient Signal Reconstruction and Lifetime Elongation in Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2016, 16, 2172-2179.	2.4	3
49	Design and experimental testing of an optimization-based flow control algorithm for Energy Harvesting Wireless Sensor Networks. <i>Control Engineering Practice</i> , 2019, 92, 104075.	3.2	3
50	Robust Distributed Estimation of the Maximum of a Field. <i>IEEE Transactions on Control of Network Systems</i> , 2020, 7, 372-383.	2.4	3
51	On Adversary Robust Consensus Protocols Through Joint-Agent Interactions. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 1646-1657.	3.6	3
52	Load distribution in small world networks. , 0, , .		2
53	Synchronization of networks of non-identical Chua circuits: Analysis and experiments. , 2011, , .		2
54	Experimental validation of pinning controllability in networked Chua's circuits. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
55	A new NARX based Semi Supervised Learning algorithm for pollutant estimation. , 2014, , .		2
56	Enhancing wireless networked monitoring system sustainability by multi-hop consensus algorithm. , 2014, , .		2
57	Consensus for nonlinear monotone networks with unilateral interactions. , 2016, , .		2
58	A decentralised topology control to regulate global properties of complex networks. European Physical Journal B, 2017, 90, 1.	0.6	2
59	On consensus protocols allowing joint-agent interactions. , 2018, , .		2
60	A GAIN SCHEDULING APPROACH TO ACTIVE QUEUE MANAGEMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 137-142.	0.4	1
61	Sensor fusion by using a sliding observer for an underwater breathing system. , 0, , .		1
62	A novel approach for detecting alerts in urban pollution monitoring with low cost sensors. , 2013, , .		1
63	Pinning control design for bounded synchronization of complex networks of nonidentical systems. , 2014, , .		1
64	Optimization-based procedure to support sensor network co-design: An application to dynamic consensus problem. , 2014, , .		1
65	Multilayer Control System Framework for Cyber-Physical Systems. Advances in Industrial Control, 2017, , 1-12.	0.4	1
66	Consensus-based algorithm for distributed estimation of the maximum of a field. , 2017, , .		1
67	A Resilient Consensus Protocol for Networks With Heterogeneous Confidence and Byzantine Adversaries. , 2022, 6, 494-499.		1
68	Realization of a fully configurable complex network of non linear Chua's oscillators. , 2012, , .		0
69	Consensus over multi-hop networked systems subject to heterogeneous time delays. , 2013, , .		0
70	Cooperative load balancing algorithm in multiple bottleneck networks. , 2013, , .		0
71	A cascade control scheme for hybrid photovoltaic power system. , 2015, , .		0
72	A cooperative packet-loss-tolerant algorithm for Wireless Networked Robots rendezvous. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
73	Application to Cyber-Physical Systems. <i>Advances in Industrial Control</i> , 2017, , 99-134.	0.4	0
74	On the Use of Cooperation as an Energy-Saving Incentive in Ad Hoc Wireless Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012, , 148-160.	0.2	0
75	Application to Control of Networked Queue Systems. <i>Advances in Industrial Control</i> , 2017, , 49-97.	0.4	0
76	Application Layer Control System: Consensus-Based Control, Theoretical Results and Performance Issues. <i>Advances in Industrial Control</i> , 2017, , 29-48.	0.4	0