Massimo Franceschetti

List of Publications by Year
in descending order

80 papers	3,404 citations	394421 19 h-index	265206 42 g-index
81 all docs	81 docs citations	81 times ranked	2274 citing authors

#	Article	IF	Citations
1	Control Barriers in Bayesian Learning of System Dynamics. IEEE Transactions on Automatic Control, 2023, 68, 214-229.	5.7	14
2	On the Convergence Properties of Social Hegselmannâ€"Krause Dynamics. IEEE Transactions on Automatic Control, 2022, 67, 589-604.	5.7	4
3	Non-Bayesian Social Learning on Random Digraphs With Aperiodically Varying Network Connectivity. IEEE Transactions on Control of Network Systems, 2022, 9, 1202-1214.	3.7	4
4	Learning-Based Attacks in Cyber-Physical Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 437-449.	3.7	9
5	Exploiting Timing Information in Event-Triggered Stabilization of Linear Systems With Disturbances. IEEE Transactions on Control of Network Systems, 2021, 8, 15-27.	3.7	7
6	Distributed Chernoff Test: Optimal Decision Systems Over Networks. IEEE Transactions on Information Theory, 2021, 67, 2399-2425.	2.4	4
7	Channel Coding Theorems in Non-stochastic Information Theory. , 2021, , .		1
8	The Value of Timing Information in Event-Triggered Control. IEEE Transactions on Automatic Control, 2020, 65, 925-940.	5.7	35
9	Automated analysis of immunosequencing datasets reveals novel immunoglobulin D genes across diverse species. PLoS Computational Biology, 2020, 16, e1007837.	3.2	9
10	Event-triggered control under time-varying rates and channel blackouts. IFAC Journal of Systems and Control, 2019, 9, 100064.	1.7	6
11	Predicting and containing epidemic risk using on-line friendship networks. PLoS ONE, 2019, 14, e0211765.	2.5	1
12	Stabilizing a linear system using phone calls. , 2019, , .		2
13	Towards a Non-Stochastic Information Theory. , 2019, , .		8
14	Theory and implementation of event-triggered stabilization over digital channels. , 2019, , .		5
15	On Graphs with Bounded and Unbounded Convergence Times in Social Hegselmann-Krause Dynamics. , 2019, , .		1
16	Authentication of cyber-physical systems under learning-based attacks. IFAC-PapersOnLine, 2019, 52, 369-374.	0.9	5
17	Event-Triggered Second-Moment Stabilization of Linear Systems Under Packet Drops. IEEE Transactions on Automatic Control, 2018, 63, 2374-2388.	5.7	15
18	Self-organized Segregation on the Grid. Journal of Statistical Physics, 2018, 170, 748-783.	1.2	7

#	Article	IF	Citations
19	Hegselmann-Krause Dynamics with Limited Connectivity. , 2018, , .		10
20	Event-triggering stabilization of complex linear systems with disturbances over digital channels. , 2018, , .		2
21	Decentralized Chernoff Test in Sensor Networks. , 2018, , .		3
22	Consensus-Based Chernoff Test in Sensor Networks. , 2018, , .		2
23	Estimating a linear process using phone calls. , 2018, , .		3
24	Event-triggered stabilization of disturbed linear systems over digital channels. , 2018, , .		6
25	Information Without Rolling Dice. IEEE Transactions on Information Theory, 2017, 63, 1349-1363.	2.4	11
26	Corrections to â€œInformation Without Rolling Diceâ€•[Mar 17 1349-1363]. IEEE Transactions on Information Theory, 2017, 63, 3332-3332.	2.4	0
27	Quantum Limits on the Entropy of Bandlimited Radiation. Journal of Statistical Physics, 2017, 169, 374-394.	1.2	4
28	Chernoff Test for Strong-or-Weak Radar Models. IEEE Transactions on Signal Processing, 2017, 65, 289-302.	5.3	11
29	Time-triggering versus event-triggering control over communication channels. , 2017, , .		20
30	A universal bound on the Ïμ-entropy of bandlimited radiation. , 2016, , .		0
31	The value of timing information in event-triggered control: The scalar case. , 2016, , .		10
32	Event-triggered stabilization of scalar linear systems under packet drops. , 2016, , .		4
33	Event-triggered stabilization of linear systems under channel blackouts. , 2015, , .		2
34	On Landauâ€™s Eigenvalue Theorem and Information Cut-Sets. IEEE Transactions on Information Theory, 2015, 61, 5042-5051.	2.4	23
35	Detecting Emotional Contagion in Massive Social Networks. PLoS ONE, 2014, 9, e90315.	2.5	329
36	On Landau's eigenvalue theorem and its applications. , 2014, , .		1

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37	Elements of Information Theory for Networked Control Systems. Lecture Notes in Control and Information Sciences, 2014, , 3-37.	1.0	36
38	Linear Codes, Target Function Classes, and Network Computing Capacity. IEEE Transactions on Information Theory, 2013, 59, 5741-5753.	2.4	24
39	Function computation via subspace coding. Physical Communication, 2013, 6, 134-141.	2.1	3
40	Moment stabilization over Markov channels. , 2013, , .		2
41	Rumor source detection under probabilistic sampling. , 2013, , .		41
42	Distributed team formation in multi-agent systems: Stability and approximation. , 2012, , .		9
43	On the information content of scattered waves. , 2012, , .		4
44	Control-Theoretic Approach to Communication With Feedback. IEEE Transactions on Automatic Control, 2012, 57, 2576-2587.	5.7	16
45	Distributed function computation in networks: A joint delay-energy perspective. , 2011, , .		1
46	Network Coding for Computing: Cut-Set Bounds. IEEE Transactions on Information Theory, 2011, 57, 1015-1030.	2.4	77
47	The Degrees of Freedom of Wireless NetworksVia Cut-Set Integrals. IEEE Transactions on Information Theory, 2011, 57, 3067-3079.	2.4	21
48	Strict Inequalities of Critical Values in Continuum Percolation. Journal of Statistical Physics, 2011, 142, 460-486.	1.2	7
49	On quantum network coding. Journal of Mathematical Physics, 2011, 52, .	1.1	20
50	Linear coding for network computing. , 2011, , .		1
51	LQG control approach for Gaussian MAC with feedback. , 2010, , .		0
52	LQG control approach to Gaussian broadcast channels with feedback. , 2010, , .		1
53	Function computation via subspace coding. , 2010, , .		3
54	Physical limits to the capacity of wide-band gaussian MIMO channels. IEEE Transactions on Wireless Communications, 2009, 8, 3396-3400.	9.2	5

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55	The Capacity of Wireless Networks: Information-Theoretic and Physical Limits. IEEE Transactions on Information Theory, 2009, 55, 3413-3424.	2.4	165
56	Network computing capacity for the reverse butterfly network. , 2009, , .		9
57	Data Rate Theorem for Stabilization Over Time-Varying Feedback Channels. IEEE Transactions on Automatic Control, 2009, 54, 243-255.	5.7	168
58	Distributed computation of symmetric functions with binary inputs. , 2009, , .		3
59	Wiretap Channel With Secure Rate-Limited Feedback. IEEE Transactions on Information Theory, 2009, 55, 5353-5361.	2.4	112
60	Optimal linear LQG control over lossy networks without packet acknowledgment. Asian Journal of Control, 2008, 10, 3-13.	3.0	72
61	Outage Capacity of MIMO Poisson Fading Channels. IEEE Transactions on Information Theory, 2008, 54, 4887-4907.	2.4	40
62	Network coding for computing. , 2008, , .		15
63	The degrees of freedom of wireless networks: information-theoretic and physical limits. , 2008, , .		7
64	Service outage based power and rate control for Poisson fading channels. , 2008, , .		0
65	Particle Density Retrieval in Random Media Using a Percolation Model and a Particle Swarm Optimizer. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 213-216.	4.0	8
66	Wave diversity limits for wireless communication. , 2008, , .		1
67	Scaling Laws for Delay Sensitive Traffic in Rayleigh Fading Networks. , 2007, , .		1
68	On Outage Capacity of MIMO Poisson Fading Channels. , 2007, , .		6
69	Percolation-Based Models for Ray-Optical Propagation in Stochastic Distributions of Scatterers With Random Shape. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 639-642.	4.0	1
70	Foundations of Control and Estimation Over Lossy Networks. Proceedings of the IEEE, 2007, 95, 163-187.	21.3	1,108
71	A hybrid approach for modeling stochastic ray propagation in stratified random lattices. Microwave and Optical Technology Letters, 2007, 49, 3068-3073.	1.4	1
72	Closing the Gap in the Capacity of Wireless Networks Via Percolation Theory. IEEE Transactions on Information Theory, 2007, 53, 1009-1018.	2.4	523

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73	A Note on LÃ‰vÃŠque and Telatar's Upper Bound on the Capacity of Wireless Ad Hoc Networks. IEEE Transactions on Information Theory, 2007, 53, 3207-3211.	2.4	10
74	When a Random Walk of Fixed Length can Lead Uniformly Anywhere Inside a Hypersphere. Journal of Statistical Physics, 2007, 127, 813-823.	1.2	22
75	Percolation in the signal to interference ratio graph. Journal of Applied Probability, 2006, 43, 552-562.	0.7	94
76	Optimality of Linear Codes for Broadcast-Mode Multicast Networks. , 2006, , .		2
77	Percolation-based approaches for ray-optical propagation in inhomogeneous random distributions of discrete scattereres. , 2006, , .		2
78	Optimal Linear LQG Control Over Lossy Networks Without Packet Acknowledgment. , 2006, , .		29
79	Continuum Percolation with Unreliable and Spread-Out Connections. Journal of Statistical Physics, 2005, 118, 721-734.	1.2	65
80	Covering algorithms, continuum percolation and the geometry of wireless networks. Annals of Applied Probability, 2003, 13, .	1.3	91