

# Giacomo Como

## List of Publications by Year in descending order

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82  
papers

1,234  
citations

516215

16  
h-index

433756

31  
g-index

82  
all docs

82  
docs citations

82  
times ranked

746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Opinion Fluctuations and Disagreement in Social Networks. <i>Mathematics of Operations Research</i> , 2013, 38, 1-27.	0.8	326
2	Robust Distributed Routing in Dynamical Networksâ€”Part II: Strong Resilience, Equilibrium Selection and Cascaded Failures. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 333-348.	3.6	70
3	Robust Distributed Routing in Dynamical Networksâ€”Part I: Locally Responsive Policies and Weak Resilience. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 317-332.	3.6	66
4	Throughput Optimality and Overload Behavior of Dynamical Flow Networks Under Monotone Distributed Routing. <i>IEEE Transactions on Control of Network Systems</i> , 2015, 2, 57-67.	2.4	56
5	Scaling limits for continuous opinion dynamics systems. <i>Annals of Applied Probability</i> , 2011, 21, .	0.6	49
6	Stability Analysis of Transportation Networks with Multiscale Driver Decisions. <i>SIAM Journal on Control and Optimization</i> , 2013, 51, 230-252.	1.1	44
7	Convexity and robustness of dynamic traffic assignment and freeway network control. <i>Transportation Research Part B: Methodological</i> , 2016, 91, 446-465.	2.8	42
8	Stability of monotone dynamical flow networks. , 2014, , .		35
9	Opinion fluctuations and persistent disagreement in social networks. , 2011, , .		34
10	Robust Network Routing under Cascading Failures. <i>IEEE Transactions on Network Science and Engineering</i> , 2014, 1, 53-66.	4.1	33
11	Anytime Reliable Transmission of Real-Valued Information through Digital Noisy Channels. <i>SIAM Journal on Control and Optimization</i> , 2010, 48, 3903-3924.	1.1	32
12	The Capacity of Finite Abelian Group Codes Over Symmetric Memoryless Channels. <i>IEEE Transactions on Information Theory</i> , 2009, 55, 2037-2054.	1.5	31
13	On resilient control of dynamical flow networks. <i>Annual Reviews in Control</i> , 2017, 43, 80-90.	4.4	26
14	Imitation Dynamics in Population Games on Community Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2021, 8, 65-76.	2.4	23
15	Distributed averaging on digital erasure networks. <i>Automatica</i> , 2011, 47, 115-121.	3.0	19
16	From local averaging to emergent global behaviors: The fundamental role of network interconnections. <i>Systems and Control Letters</i> , 2016, 95, 70-76.	1.3	19
17	Threshold Models of Cascades in Large-Scale Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2019, 6, 158-172.	4.1	19
18	On the Capacity of Memoryless Finite-State Multiple-Access Channels With Asymmetric State Information at the Encoders. <i>IEEE Transactions on Information Theory</i> , 2011, 57, 1267-1273.	1.5	16

#	ARTICLE	IF	CITATIONS
19	On imitation dynamics in potential population games. , 2017, , .		15
20	A Micro-Simulation Study of the Generalized Proportional Allocation Traffic Signal Control. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1705-1715.	4.7	15
21	The Error Exponent of Variable-Length Codes Over Markov Channels With Feedback. IEEE Transactions on Information Theory, 2009, 55, 2139-2160.	1.5	14
22	Opinion Fluctuations and Disagreement in Social Networks. SSRN Electronic Journal, 2010, , .	0.4	13
23	Distributed optimal equilibrium selection for traffic flow over networks. , 2015, , .		12
24	Robustness of Large-Scale Stochastic Matrices to Localized Perturbations. IEEE Transactions on Network Science and Engineering, 2015, 2, 53-64.	4.1	12
25	Average Spectra and Minimum Distances of Low-Density Parity-Check Codes over Abelian Groups. SIAM Journal on Discrete Mathematics, 2009, 23, 19-53.	0.4	11
26	Entropy-like Lyapunov functions for the stability analysis of adaptive traffic signal controls. , 2015, , .		9
27	On Generalized Proportional Allocation Policies for Traffic Signal Control * *The authors are members of the excellence centers LCCC and ELLIIT. The work was partially supported by the Swedish Research Council through Project Research Grant 2015-04066 and by the Compagina di San Paolo.. IFAC-PapersOnLine, 2017, 50, 9643-9648.	0.5	9
28	Opinion dynamics and stubbornness through mean-field games. , 2013, , .		8
29	Generalized Proportional Allocation Policies for Robust Control of Dynamical Flow Networks. IEEE Transactions on Automatic Control, 2022, 67, 32-47.	3.6	8
30	Distributed Dynamic Pricing of Multiscale Transportation Networks. IEEE Transactions on Automatic Control, 2022, 67, 1625-1638.	3.6	7
31	Optimal Targeting in Super-Modular Games. IEEE Transactions on Automatic Control, 2022, 67, 6366-6380.	3.6	7
32	On the capacity of finite state multiple access channels with asymmetric partial state feedback. , 2009, , .		6
33	Scaling limits for continuous opinion dynamics systems. , 2009, , .		6
34	Group Codes Outperform Binary-Coset Codes on Nonbinary Symmetric Memoryless Channels. IEEE Transactions on Information Theory, 2010, 56, 4321-4334.	1.5	6
35	Memoryless Multiple Access Channel With Asymmetric Noisy State Information at the Encoders. IEEE Transactions on Information Theory, 2013, 59, 7052-7070.	1.5	6
36	Convexity and Robustness of Dynamic Network Traffic Assignment for Control of Freeway Networks. IFAC-PapersOnLine, 2016, 49, 335-340.	0.5	6

#	ARTICLE	IF	CITATIONS
37	Stability and optimality of multi-scale transportation networks with distributed dynamic tolls. , 2018, , .		6
38	Equilibria and Systemic Risk in Saturated Networks. Mathematics of Operations Research, 2022, 47, 1781-1801.	0.8	6
39	Equilibria and learning dynamics in mixed network coordination/anti-coordination games. , 2021, , .		6
40	Lower bounds on the estimation error in problems of distributed computation. , 2009, , .		5
41	Sphere-packing bound for block-codes with feedback and finite memory. , 2010, , .		5
42	Stability analysis of transportation networks with multiscale driver decisions. , 2011, , .		5
43	On the capacity of memoryless finite-state multiple access channels with asymmetric noisy state information at the encoders. , 2011, , .		5
44	Robust distributed routing in dynamical networks with cascading failures. , 2012, , .		5
45	On maximally stabilizing adaptive traffic signal control. , 2013, , .		5
46	On resilience of multicommodity dynamical flow networks. , 2014, , .		5
47	Convex formulations of dynamic network traffic assignment for control of freeway networks. , 2015, , .		5
48	Ensembles of codes over abelian groups. , 2005, , .		4
49	Average consensus on digital noisy networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 36-41.	0.4	4
50	Robust distributed routing in dynamical flow networks. , 2011, , .		4
51	Fast Diffusion of a Mutant in Controlled Evolutionary Dynamics * *The second author is a member of the excellence centers LCCC and ELLIIT. His work was partially supported by the Swedish Research Council through Project Research Grant 2015-04066 and by the Compagnia di San Paolo through a PoliTo Starting Grant. IFAC-PapersOnLine, 2017, 50, 11908-11913.	0.5	4
52	Evaluation of Decentralized Feedback Traffic Light Control with Dynamic Cycle Length. IFAC-PapersOnLine, 2018, 51, 464-469.	0.5	4
53	Controlling Evolutionary Dynamics in Networks: A Case Study. IFAC-PapersOnLine, 2018, 51, 349-354.	0.5	4
54	On a Centrality Maximization Game. IFAC-PapersOnLine, 2020, 53, 2844-2849.	0.5	4

#	ARTICLE	IF	CITATIONS
55	On games with coordinating and anti-coordinating agents. IFAC-PapersOnLine, 2020, 53, 10975-10980.	0.5	4
56	Controlling network coordination games. IFAC-PapersOnLine, 2020, 53, 2862-2867.	0.5	4
57	Staircase and other structured linear-time encodable LDPC codes: analysis and design. , 2007, , .		3
58	Throughput optimal distributed routing in dynamical flow networks. , 2013, , .		3
59	On Distributed Optimal Control of Traffic Flows in Transportation Networks. , 2018, , .		3
60	On the Gilbert-Varshamov distance of Abelian group codes. , 2007, , .		2
61	Anytime reliable transmission of real-valued information through digital noisy channels. , 2008, , .		2
62	Robust network routing under cascading failures. , 2014, , .		2
63	On stochastic imitation dynamics in large-scale networks. , 2018, , .		2
64	On stability of users equilibria in heterogeneous routing games. , 2019, , .		2
65	On the well-posedness of deterministic queuing networks with feedback control. Transportation Research Part B: Methodological, 2021, 150, 323-335.	2.8	2
66	On the Burnashev exponent for Markov channels. , 2007, , .		1
67	On the error exponent of Markov channels with ISI and feedback. , 2007, , .		1
68	Nonbinary decoding of structured LDPC codes. , 2008, , .		1
69	The Performance of Serial Turbo Codes Does Not Concentrate. IEEE Transactions on Information Theory, 2012, 58, 2570-2588.	1.5	1
70	On resilience of distributed routing in networks under cascade dynamics. , 2013, , .		1
71	Robustness of large-scale stochastic matrices to localized perturbations. , 2014, , .		1
72	On Robustness of the Generalized Proportional Controller for Traffic Signal Control. , 2020, , .		1

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73	Harmonic Influence in Largescale Networks. Performance Evaluation Review, 2014, 42, 24-24.	0.4	1
74	Systemic risk and network intervention. IFAC-PapersOnLine, 2020, 53, 2856-2861.	0.5	1
75	Non-binary decoding of structured LDPC codes: Density evolution. , 2008, , .		0
76	Distributed averaging on digital noisy networks. , 2011, , .		0
77	Multiple access channel with various degrees of asymmetric state information. , 2012, , .		0
78	Dynamics in network games with local coordination and global congestion effects. , 2014, , .		0
79	Technical Committee on Networks and Communication Systems [Technical Activities]. IEEE Control Systems, 2016, 36, 13-15.	1.0	0
80	Technical Committee on Networks and Communication Systems [Technical Activities]. IEEE Control Systems, 2018, 38, 18-19.	1.0	0
81	On Robustness of Equilibria in Dynamical Transportation Networks. , 2019, , .		0
82	Stability and phase transitions of dynamical flow networks with finite capacities. IFAC-PapersOnLine, 2020, 53, 2588-2593.	0.5	0