

Lorenzo Zino

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

617
citations

623188

14
h-index

676716

22
g-index

46
all docs

46
docs citations

46
times ranked

334
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling and predicting the effect of social distancing and travel restrictions on COVID-19 spreading. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200875.	1.5	61
2	Continuous-Time Discrete-Distribution Theory for Activity-Driven Networks. <i>Physical Review Letters</i> , 2016, 117, 228302.	2.9	51
3	Analysis, Prediction, and Control of Epidemics: A Survey from Scalar to Dynamic Network Models. <i>IEEE Circuits and Systems Magazine</i> , 2021, 21, 4-23.	2.6	46
4	An analytical framework for the study of epidemic models on activity driven networks. <i>Journal of Complex Networks</i> , 2017, 5, 924-952.	1.1	39
5	High-Resolution Agent-Based Modeling of COVID-19 Spreading in a Small Town. <i>Advanced Theory and Simulations</i> , 2021, 4, 2000277.	1.3	39
6	Modeling Memory Effects in Activity-Driven Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 2830-2854.	0.7	32
7	A two-layer model for coevolving opinion dynamics and collective decision-making in complex social systems. <i>Chaos</i> , 2020, 30, 083107.	1.0	28
8	A model predictive control approach to optimally devise a two-dose vaccination rollout: A case study on COVID-19 in Italy. <i>International Journal of Robust and Nonlinear Control</i> , 2023, 33, 4808-4823.	2.1	25
9	Game-theoretic modeling of collective decision making during epidemics. <i>Physical Review E</i> , 2021, 104, 024314.	0.8	24
10	Imitation Dynamics in Population Games on Community Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2021, 8, 65-76.	2.4	23
11	Bipartite consensus for a class of nonlinear multi-agent systems under switching topologies: A disturbance observer-based approach. <i>Neurocomputing</i> , 2022, 488, 130-143.	3.5	23
12	Collective patterns of social diffusion are shaped by individual inertia and trend-seeking. <i>Nature Communications</i> , 2021, 12, 5698.	5.8	22
13	Diffusion of Innovation in Large Scale Graphs. <i>IEEE Transactions on Network Science and Engineering</i> , 2017, 4, 100-111.	4.1	15
14	On imitation dynamics in potential population games. , 2017, , .		15
15	Consensus Over Activity-Driven Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2020, 7, 866-877.	2.4	14
16	A multi-agent model to study epidemic spreading and vaccination strategies in an urban-like environment. <i>Applied Network Science</i> , 2020, 5, 68.	0.8	14
17	On assessing control actions for epidemic models on temporal networks. , 2020, , 1-1.		13
18	Time to Extinction for the SIS Epidemic Model: New Bounds on the Tail Probabilities. <i>IEEE Transactions on Network Science and Engineering</i> , 2019, 6, 74-81.	4.1	12

#	ARTICLE	IF	CITATIONS
19	Predicting the Effects of Waning Vaccine Immunity Against COVID-19 through High-Resolution Agent-Based Modeling. <i>Advanced Theory and Simulations</i> , 2022, 5, 2100521.	1.3	11
20	Social information and spontaneous emergence of leaders in human groups. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180938.	1.5	10
21	Designing the Safe Reopening of US Towns Through High-Resolution Agent-Based Modeling. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100157.	1.3	10
22	Analysis and control of epidemics in temporal networks with self-excitement and behavioral changes. <i>European Journal of Control</i> , 2020, 54, 1-11.	1.6	9
23	COVID-19 Modeling: High-Resolution Agent-Based Modeling of COVID-19 Spreading in a Small Town (Adv.) <i>Tijdschrift voor Economische en Managementwetenschappen</i> , 2021, 1, 0.7843-1.0	1.3	9
24	A Mean-Field Analysis of a Network Behavioral-Epidemic Model. , 2022, 6, 2533-2538.		8
25	Urban Determinants of COVID-19 Spread: a Comparative Study across Three Cities in New York State. <i>Journal of Urban Health</i> , 2022, 99, 909-921.	1.8	6
26	Backbone reconstruction in temporal networks from epidemic data. <i>Physical Review E</i> , 2019, 100, 042306.	0.8	5
27	Leader-follower consensus on activity-driven networks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190485.	1.0	5
28	A Coevolutionary Model for Actions and Opinions in Social Networks. , 2020, , .		5
29	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. <i>IFAC-PapersOnLine</i> , 2017, 50, 11908-11913.	0.5	4
30	Controlling Evolutionary Dynamics in Networks: A Case Study. <i>IFAC-PapersOnLine</i> , 2018, 51, 349-354.	0.5	4
31	A novel framework for community modeling and characterization in directed temporal networks. <i>Applied Network Science</i> , 2019, 4, .	0.8	4
32	A multi-layer network model to assess school opening policies during a vaccination campaign: a case study on COVID-19 in France. <i>Applied Network Science</i> , 2022, 7, 12.	0.8	4
33	A time-varying network model for sexually transmitted infections accounting for behavior and control actions. <i>International Journal of Robust and Nonlinear Control</i> , 2023, 33, 4784-4807.	2.1	4
34	Dynamic planning of a two-dose vaccination campaign with uncertain supplies. <i>European Journal of Operational Research</i> , 2023, 304, 1269-1278.	3.5	4
35	On modeling social diffusion under the impact of dynamic norms. , 2021, , .		3
36	Optimal policy design to mitigate epidemics on networks using an SIS model. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	Population Games on Dynamic Community Networks. , 2022, 6, 2695-2700.		3
38	On stochastic imitation dynamics in large-scale networks. , 2018, , .		2
39	Reconstructing the Effectiveness of Policy Measures to Avoid Next-Wave COVID-19 Infections and Deaths Using a Dynamic Simulation Model: Implications for Health Technology Assessment. Frontiers in Medical Technology, 2021, 3, 666581.	1.3	2
40	Fully distributed quantized secure bipartite consensus control of nonlinear multiagent systems subject to denial-of-service attacks. Neurocomputing, 2022, 505, 101-115.	3.5	2
41	On Unveiling the Community Structure of Temporal Networks. , 2018, , .		1
42	Analysis of the Heterogeneous Vectorial Network Model of Collective Motion. , 2021, 5, 1103-1108.		1
43	On imitation dynamics in population games with Markov switching. , 2021, , .		1
44	Modelling Behavioural Preferences in Epidemic Models for Sexually Transmitted Infections on Temporal Networks. , 2021, , .		1
45	Effect of self-excitement and behavioral factors on epidemics on activity driven networks. , 2019, , .		0