Mengbin Ye

List of Publications by Year
in descending order

47 papers	745 citations	623734 14 h-index	580821 25 g-index
50 all docs	50 docs citations	50 times ranked	578 citing authors

#	Article	IF	Citations
1	Recent Advances in the Modelling and Analysis of Opinion Dynamics on Influence Networks. International Journal of Automation and Computing, 2019, 16, 129-149.	4.5	89
2	Event-Triggered Algorithms for Leader–Follower Consensus of Networked Euler–Lagrange Agents. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1435-1447.	9.3	68
3	An influence network model to study discrepancies in expressed and private opinions. Automatica, 2019, 107, 371-381.	5.0	63
4	Evolution of Social Power in Social Networks With Dynamic Topology. IEEE Transactions on Automatic Control, 2018, 63, 3793-3808.	5.7	53
5	Bearing-Only Measurement Self-Localization, Velocity Consensus and Formation Control. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 575-586.	4.7	37
6	Continuous-time opinion dynamics on multiple interdependent topics. Automatica, 2020, 115, 108884.	5.0	35
7	Cooperative Localization of a GPS-Denied UAV Using Direction-of-Arrival Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1966-1978.	4.7	34
8	A two-layer model for coevolving opinion dynamics and collective decision-making in complex social systems. Chaos, 2020, 30, 083107.	2.5	28
9	Game-theoretic modeling of collective decision making during epidemics. Physical Review E, 2021, 104, 024314.	2.1	24
10	Collective patterns of social diffusion are shaped by individual inertia and trend-seeking. Nature Communications, 2021, 12, 5698.	12.8	22
11	Event-based leader-follower consensus for multiple Euler-Lagrange systems with parametric uncertainties. , 2016, , .		20
12	Distributed model–independent consensus of Euler–Lagrange agents on directed networks. International Journal of Robust and Nonlinear Control, 2017, 27, 2428-2450.	3.7	20
13	Analysis of a nonlinear opinion dynamics model with biased assimilation. Automatica, 2020, 120, 109113.	5.0	19
14	Opinion Dynamics With Cross-Coupling Topics: Modeling and Analysis. IEEE Transactions on Computational Social Systems, 2020, 7, 632-647.	4.4	17
15	Applications of the Poincaré–Hopf Theorem: Epidemic Models and Lotka–Volterra Systems. IEEE Transactions on Automatic Control, 2022, 67, 1609-1624.	5.7	15
16	On a Network SIS Model with Opinion Dynamics. IFAC-PapersOnLine, 2020, 53, 2582-2587.	0.9	15
17	Consensus and Disagreement of Heterogeneous Belief Systems in Influence Networks. IEEE Transactions on Automatic Control, 2020, 65, 4679-4694.	5.7	14
18	Matrix-weighted consensus with leader-following topologies. , 2017, , .		13

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19	Opinion Dynamics and the Evolution of Social Power in Social Networks. Springer Theses, 2019, , .	0.1	13
20	Convergence and Equilibria Analysis of a Networked Bivirus Epidemic Model. SIAM Journal on Control and Optimization, 2022, 60, S323-S346.	2.1	10
21	Model-independent rendezvous of Euler-Lagrange agents on directed networks. , 2015, , .		9
22	Leader Tracking of Eulerâ€"Lagrange Agents on Directed Switching Networks Using a Model-Independent Algorithm. IEEE Transactions on Control of Network Systems, 2019, 6, 561-571.	3.7	9
23	Cooperative Localisation of a GPS-Denied UAV in 3-Dimensional Space Using Direction of Arrival Measurements * *This work was supported by the Australian Research Council (ARC) under the ARC grants DP-130103610 and DP-160104500, and by Data61-CSIRO (formerly NICTA).. IFAC-PapersOnLine, 2017, 50, 8019-8024.	0.9	8
24	Bearing-Based Formation Control and Network Localization via Global Orientation Estimation. , 2018, , .		8
25	Dynamical Networks of Social Influence: Modern Trends and Perspectives. IFAC-PapersOnLine, 2020, 53, 17616-17627.	0.9	8
26	A Mean-Field Analysis of a Network Behavioralâ€"Epidemic Model. , 2022, 6, 2533-2538.		8
27	On the Analysis of the DeGroot-Friedkin Model with Dynamic Relative Interaction Matrices * *This work was supported by the Australian Research Council (ARC) under the ARC grants DP-130103610 and DP-160104500, by the National Natural Science Foundation of China (grant 61375072), and by Data61-CSIRO (formerly NICTA). The work of Liu and BaÅŸar was supported in part by Office of Naval Research (ONR) MURI Grant N00014-16-1-2710, and in part by NSF under grant CCF 11-11342. IFAC-PapersOnLine, 2017, 50, 11902-11907.	0.9	7
28	Discrete-Time Polar Opinion Dynamics with Heterogeneous Individuals. , 2018, , .		7
29	Tight bound on parameter of surplus-based averaging algorithm over balanced digraphs. International Journal of Control, 2020, 93, 1859-1866.	1.9	7
30	Modelling of Individual Behaviour in the DeGrootâ€"Friedkin Self-Appraisal Dynamics on Social Networks. , 2019, , .		7
31	Multiagent self-localization using bearing only measurements. , 2013, , .		6
32	Expressed and Private Opinion Dynamics on Influence Networks with Asynchronous Updating. , 2020, , .		6
33	Nonlinear Mapping Convergence and Application to Social Networks. , 2018, , .		5
34	Distributed Feedback Control on the SIS Network Model: An Impossibility Result. IFAC-PapersOnLine, 2020, 53, 10955-10962.	0.9	5
35	A Coevolutionary Model for Actions and Opinions in Social Networks. , 2020, , .		5
36	A Network SIS Meta-Population Model with Transportation Flow. IFAC-PapersOnLine, 2020, 53, 2562-2567.	0.9	5

#	Article	IF	Citations
37	Forced variational integrator for distance-based shape control with flocking behavior of multi-agent systems. IFAC-PapersOnLine, 2020, 53, 3348-3353.	0.9	5
38	Model-independent trajectory tracking of Euler-Lagrange agents on directed networks. , 2016, , .		4
39	Modification of social dominance in social networks by selective adjustment of interpersonal weights. , 2017, , .		4
40	Cooperative localisation of UAVs in a GPS-denied environment using bearing measurements. , 2016, , .		3
41	On the Effects of Heterogeneous Logical Interdependencies in a Multi-Dimensional Opinion Dynamics Model. , 2018, , .		3
42	On modeling social diffusion under the impact of dynamic norms. , 2021, , .		3
43	Mathematical Models of Self-Appraisal in Social Networks. Journal of Systems Science and Complexity, 2021, 34, 1604-1633.	2.8	2
44	Extrema without convexity and stability without Lyapunov. Communications in Information and Systems, 2020, 20, 253-281.	0.5	2
45	A variable gain model-independent algorithm for rendezvous of Euler-Lagrange agents on directed networks. , 2016, , .		0
46	Continuous-Time Opinion Dynamics with Interdependent Topics. Springer Theses, 2019, , 163-189.	0.1	0
47	Modification of Social Dominance in Autocratic Networks. Springer Theses, 2019, , 125-145.	0.1	0