Fei Chen

List of Publications by Year
in descending order

78 papers	1,575 citations	430874 18 h-index	315739 38 g-index
81 all docs	81 docs citations	81 times ranked	1027 citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Average Tracking of Multiple Time-Varying Reference Signals With Bounded Derivatives. IEEE Transactions on Automatic Control, 2012, 57, 3169-3174.	5.7	211
2	Reaching a consensus via pinning control. Automatica, 2009, 45, 1215-1220.	5.0	200
3	Distributed Average Tracking of Networked Euler-Lagrange Systems. IEEE Transactions on Automatic Control, 2015, 60, 547-552.	5.7	99
4	On the Control of Multi-Agent Systems: A Survey. Foundations and Trends in Systems and Control, 2019, 6, 339-499.	7.5	91
5	Surrounding control in cooperative agent networks. Systems and Control Letters, 2010, 59, 704-712.	2.3	86
6	Advances in Network Controllability. IEEE Circuits and Systems Magazine, 2019, 19, 8-32.	2.3	86
7	Distributed Average Tracking for Reference Signals With Bounded Accelerations. IEEE Transactions on Automatic Control, 2015, 60, 863-869.	5.7	81
8	Nonsmooth leader-following formation control of nonidentical multi-agent systems with directed communication topologies. Automatica, 2016, 64, 112-120.	5.0	64
9	A Connection Between Dynamic Region-Following Formation Control and Distributed Average Tracking. IEEE Transactions on Cybernetics, 2018, 48, 1760-1772.	9.5	60
10	Distributed average tracking for double-integrator multi-agent systems with reduced requirement on velocity measurements. Automatica, 2017, 81, 1-7.	5.0	52
11	Pinning control of complex dynamical networks with heterogeneous delays. Computers and Mathematics With Applications, 2008, 56, 1423-1433.	2.7	44
12	Minimum-Energy Distributed Consensus Control of Multiagent Systems: A Network Approximation Approach. IEEE Transactions on Automatic Control, 2020, 65, 1144-1159.	5.7	43
13	Decentralized formation control of mobile agents: A unified framework. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4917-4926.	2.6	37
14	The average path length of scale free networks. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1405-1410.	3.3	31
15	Distributed economic dispatch via a predictive scheme: Heterogeneous delays and privacy preservation. Automatica, 2021, 123, 109356.	5.0	26
16	Sign projected gradient flow: A continuous-time approach to convex optimization with linear equality constraints. Automatica, 2020, 120, 109156.	5.0	23
17	Coordinated Tracking in Mean Square for a Multi-Agent System With Noisy Channels and Switching Directed Network Topologies. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 835-839.	3.0	22
18	Multi-leader multi-follower coordination with cohesion, dispersion, and containment control via proximity graphs. Science China Information Sciences, 2017, 60, 1.	4.3	22

#	Article	IF	Citations
19	Controllability of Directed Networked MIMO Systems With Heterogeneous Dynamics. IEEE Transactions on Control of Network Systems, 2020, 7, 807-817.	3.7	18
20	Distributed Average Tracking in Weight-Unbalanced Directed Networks. IEEE Transactions on Automatic Control, 2021, 66, 4436-4443.	5.7	18
21	Controllability of Weighted and Directed Networks with Nonidentical Node Dynamics. Mathematical Problems in Engineering, 2013, 2013, 1-10.	1.1	14
22	Stabilizing weighted complex networks. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14369-14382.	2.1	13
23	Properties of Composite Laplacian Quadratics and Their Applications in Consensus of Linear Differential Inclusions. IEEE Transactions on Automatic Control, 2016, 61, 2269-2275.	5.7	12
24	Distributed Control for Coupled Nonholonomic Mobile Robots under the Event†Triggered and Self†Triggered Frameworks. Asian Journal of Control, 2017, 19, 900-917.	3.0	12
25	Robust Finite-Time Dynamic Average Consensus With Exponential Convergence Rates. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2578-2582.	3.0	12
26	Distributed average tracking for double-integrator agents without using velocity measurements. , 2015, , .		11
27	Distributed Average Tracking in Multi-agent Systems. , 2020, , .		11
28	Finding and evaluating the hierarchical structure in complex networks. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 5013-5023.	2.1	10
29	Time-varying convex optimization for double-integrator dynamics over a directed network. , 2016, , .		10
30	Multi-Agent Control: A Graph-Theoretic Perspective. Journal of Systems Science and Complexity, 2021, 34, 1973-2002.	2.8	10
31	Distributed average tracking with input saturation. Nonlinear Dynamics, 2017, 90, 2827-2839.	5.2	9
32	An extended proportional-integral control algorithm for distributed average tracking and its applications in Euler-Lagrange systems. , 2014, , .		8
33	STABILITY AND CONTROLLABILITY OF ASYMMETRIC COMPLEX DYNAMICAL NETWORKS: EIGENVALUE ANALYSIS. International Journal of Modern Physics C, 2009, 20, 237-252.	1.7	7
34	Delay and Packet-Drop Tolerant Multistage Distributed Average Tracking in Mean Square. IEEE Transactions on Cybernetics, 2022, 52, 9535-9545.	9.5	7
35	Tracking the average of time-varying nonsmooth signals for double-integrator agents with a fixed topology. , 2013, , .		6
36	On the optimal parameter of the composite Laplacian quadratics function. Automatica, 2016, 72, 1-10.	5.0	6

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37	Distributed tracking of a non-minimally rigid formation for multi-agent systems. International Journal of Systems Science, 2017, 48, 161-170.	5.5	6
38	Average Controllability of Complex Networks With Laplacian Dynamics. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1704-1714.	5.4	6
39	Comparison between pinning control of different chaotic complex dynamical networks. Journal of Control Theory and Applications, 2008, 6, 2-10.	0.8	5
40	Finite-time consensus of multi-agent networks with inherent nonlinear dynamics under an undirected interaction graph. , 2011, , .		5
41	Distributed computation of the average of multiple time-varying reference signals. , 2011, , .		5
42	Synchronized regions of pinned complex networks: spectral analysis. Nonlinear Dynamics, 2014, 78, 1609-1628.	5.2	5
43	Distributed Average Tracking over Weight-Unbalanced Directed Graphs. , 2019, , .		5
44	Distributed economic dispatch for power generation with timeâ€varying loads and external disturbances. IET Control Theory and Applications, 2021, 15, 88-95.	2.1	5
45	Consensus of linear differential inclusions via composite Laplacian quadratics. , 2015, , .		4
46	Pinning synchronization of networked multi-agent systems: spectral analysis. Control Theory and Technology, 2015, 13, 45-54.	1.6	4
47	Distributed consensus via selfâ€triggered output feedback. IET Control Theory and Applications, 2016, 10, 1170-1180.	2.1	4
48	Convex Optimization via Finite-Time Projected Gradient Flows. , 2018, , .		4
49	Distributed Nonlinear Placement for a Class of Multicluster Eulerâ€"Lagrange Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6418-6425.	9.3	4
50	Distributed Time-Varying Economic Dispatch via a Prediction-Correction Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 4215-4224.	5.4	4
51	Multi-agent coordination with cohesion, dispersion, and containment control. , 2010, , .		3
52	Rigidity based formation tracking for multi-agent networks. Chinese Physics B, 2015, 24, 090206.	1.4	3
53	Distributed output-based self-triggered control for general linear multi-agent systems. , 2015, , .		3
54	A study on the relationship between consensus of edge dynamics and node dynamics. , 2017, , .		3

#	Article	IF	Citations
55	A Distributed Algorithm for Tracking General Functions of Multiple Signals Not-Necessarily Having Steady States. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2107-2111.	3.0	3
56	Distributed tracking of a rigid formation for multi-agent systems. , 2014, , .		2
57	Distributed adaptive coordinated tracking for coupled nonholonomic mobile robots. , 2014, , .		2
58	An adaptive dynamic protocol for distributed convex optimization. , 2015, , .		2
59	Event-triggered control for cluster synchronization of linearly coupled complex networks. , 2014, , .		1
60	A cooperative inverse optimal problem for multi-agent systems with output feedback. , 2015, , .		1
61	Distributed self-triggered control for coupled general linear systems via static output feedback. , 2015, , .		1
62	Pinning synchronization and optimization of complex networks with sign inner-coupling configurations. , 2017, , .		1
63	Distributed average tracking of linear differential inclusions. , 2017, , .		1
64	Discrete-time distributed average tracking for noisy reference signals. , 2019, , .		1
65	Regional consensus for non-ANCBC systems with input saturation. , 2019, , .		1
66	When distributed formation control is feasible under hard constraints on energy and time?. Automatica, 2022, 135, 109984.	5.0	1
67	A Scaling-Function Approach for Distributed Constrained Optimization in Unbalanced Multiagent Networks. IEEE Transactions on Automatic Control, 2022, 67, 6112-6118.	5.7	1
68	Distributed Optimal Formation Control with Hard Constraints on Energy and Time. , 2020, , .		1
69	A distributed predictive scheme for economic dispatch with heterogeneous time delays in smart grids. , 2017, , .		0
70	A simplified prediction-correction algorithm for time-varying convex optimization. , 2019, , .		0
71	Control Energy of Directed Networks. , 2019, , .		0
72	Nonlinear unmanned aerial vehicle formation control via composite Laplacian quadratics. Advanced Control for Applications, 2020, 2, e31.	1.7	0

#	Article	IF	Citations
73	Distributed Average Tracking for General Linear Dynamics. , 2020, , 125-134.		0
74	Distributed Average Tracking for Networked Eulerâ€"Lagrange Systems. , 2020, , 135-156.		0
75	Distributed Average Tracking in Distributed Convex Optimization. , 2020, , 193-231.		0
76	Distributed Average Tracking via an Extended PI Scheme. , 2020, , 61-75.		0
77	Distributed Average Tracking in Formation Control. , 2020, , 179-191.		0
78	Distributed Average Tracking with Input Saturation. , 2020, , 157-175.		0