

Xiao Fan Wang

List of Publications by Year in descending order

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134
papers

9,904
citations

117625

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all docs

137
docs citations

137
times ranked

4452
citing authors

#	ARTICLE	IF	CITATIONS
1	Leader-Follower Opinion Dynamics of Signed Social Networks With Asynchronous Trust/Distrust Level Evolution. IEEE Transactions on Network Science and Engineering, 2022, 9, 495-509.	6.4	19
2	Prediction of Intra-Urban Human Mobility by Integrating Regional Functions and Trip Intentions. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4972-4981.	5.7	1
3	Reduced-order interval observer based consensus for MASs with time-varying interval uncertainties. Automatica, 2022, 135, 109989.	5.0	38
4	Impact of Heterogeneity on Network Embedding. IEEE Transactions on Network Science and Engineering, 2022, 9, 1296-1307.	6.4	2
5	Distributed Fault-Tolerant Consensus Tracking of Multi-Agent Systems Under Cyber-Attacks. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1037-1048.	13.1	14
6	An experimental study of tie transparency and individual perception in social networks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	2.1	0
7	Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7788-7800.	9.3	15
8	Detecting Hierarchical and Overlapping Network Communities Based on Opinion Dynamics. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	0
9	Moving-Target Enclosing Control for Mobile Agents With Collision Avoidance. IEEE Transactions on Control of Network Systems, 2021, 8, 1669-1679.	3.7	20
10	Conspiracy vs science: A large-scale analysis of online discussion cascades. World Wide Web, 2021, 24, 585-606.	4.0	10
11	The Strength of Structural Diversity in Online Social Networks. Research, 2021, 2021, 9831621.	5.7	3
12	Almost sure exponential stability of two-strategy evolutionary games with multiplicative noise. Information Sciences, 2021, 579, 888-903.	6.9	10
13	Finite-size scaling of geometric renormalization flows in complex networks. Physical Review E, 2021, 104, 034304.	2.1	7
14	Tampering Detection of LiDAR Data for Autonomous Vehicles. , 2021, , .		1
15	Cooperative Adaptive Fault-Tolerant Control for Multi-agent Systems with Deception Attacks. , 2021, , .		3
16	A New Hybrid Algorithm for the Continuous Site Inspection Points Location-Assignment-Path Planning Problem. , 2021, , .		0
17	Automatic Overtaking on Two-way Roads with Vehicle Interactions Based on Proximal Policy Optimization. , 2021, , .		7
18	Fast-Learning Grasping and Pre-Grasping via Clutter Quantization and Q-map Masking. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
19	Privacy-Preserving Average Consensus in Finite Time. , 2021, , .		1
20	Security Analysis of a Distributed Networked System Under Eavesdropping Attacks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1254-1258.	3.0	22
21	Coordination Control for Uncertain Networked Systems Using Interval Observers. IEEE Transactions on Cybernetics, 2020, 50, 4008-4019.	9.5	53
22	The Infimum on Laplacian Eigenvalues of a Connected Extended Graph: An Edge-Grafting Perspective. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2627-2631.	3.0	2
23	A comparative study of online communities and popularity of BBS in four Chinese universities. PLoS ONE, 2020, 15, e0234469.	2.5	1
24	Target localization and enclosing control for networked mobile agents with bearing measurements. Automatica, 2020, 118, 109022.	5.0	49
25	Enclose a Target with Multiple Nonholonomic Agents. , 2020, , .		2
26	Almost Sure Exponential Stability in the Stochastic Delay Replicator Dynamics for Evolutionary Snowdrift Games. , 2020, , .		0
27	State estimation over lossy channel via online measurement coding: Algorithm design and performance optimization. Journal of the Franklin Institute, 2019, 356, 6638-6655.	3.4	2
28	Challenges for the cyber-physical manufacturing enterprises of the future. Annual Reviews in Control, 2019, 47, 200-213.	7.9	225
29	Continuous-Time Opinion Dynamics With Stochastic Multiplicative Noises. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 988-992.	3.0	11
30	Global consensus tracking of discrete-time saturated networked systems via nonlinear feedback laws. Journal of the Franklin Institute, 2019, 356, 722-733.	3.4	4
31	Reaching Non-Negative Edge Consensus of Networked Dynamical Systems. IEEE Transactions on Cybernetics, 2018, 48, 2712-2722.	9.5	35
32	Coverage Control for Heterogeneous Mobile Sensor Networks Subject to Measurement Errors. IEEE Transactions on Automatic Control, 2018, 63, 3479-3486.	5.7	18
33	Online Power Scheduling for Distributed Filtering Over an Energy-Limited Sensor Network. IEEE Transactions on Industrial Electronics, 2018, 65, 4216-4226.	7.9	28
34	Observer-Based Robust Coordinated Control of Multiagent Systems With Input Saturation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1933-1946.	11.3	71
35	Robust semiglobal swarm tracking of coupled harmonic oscillators with input saturation and external disturbance. International Journal of Robust and Nonlinear Control, 2018, 28, 1566-1582.	3.7	13
36	Propagation of interacting diseases on multilayer networks. Physical Review E, 2018, 98, 012303.	2.1	11

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37	Nonnegative Edge Quasi-Consensus of Networked Dynamical Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 304-308.	3.0	46
38	Controllability of networked higher-dimensional systems with one-dimensional communication. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160215.	3.4	25
39	Fully Distributed Event-Triggered Semiglobal Consensus of Multi-agent Systems With Input Saturation. IEEE Transactions on Industrial Electronics, 2017, 64, 5055-5064.	7.9	194
40	Inferring time-delayed dynamic networks with nonlinearity and nonuniform lags. Europhysics Letters, 2017, 119, 28001.	2.0	3
41	Reconstruction of Complex Directional Networks with Group Lasso Nonlinear Conditional Granger Causality. Scientific Reports, 2017, 7, 2991.	3.3	25
42	Community-based informed agents selection for flocking with a virtual leader. International Journal of Control, Automation and Systems, 2017, 15, 394-403.	2.7	5
43	Edge consensus on complex networks: a structural analysis. International Journal of Control, 2017, 90, 1584-1596.	1.9	10
44	A Typical Power Allocation for Distributed Filtering * *This work was supported in part by the National Natural Science Foundation of China under Grant(61573143,61503139), the Innovation Program of Shanghai Municipal Education Commission under Grant No. 14zz55, China Postdoctoral Science Funding 2015M570337. IFAC-PapersOnLine, 2017, 50, 10550-10555.	0.9	0
45	Robust Semi-global Coordinated Tracking of Saturated Networked Systems * *This work was supported by the National Natural Science Foundation of China under Grant Nos. 61374176, 61473129 and 61374160, the Science Fund for Creative Research Groups of the National Natural Science Foundation of China (Nos. 61521063).. IFAC-PapersOnLine, 2017, 50, 8303-8308.	0.9	4
46	Analysis and prediction of team performance based on interaction networks. , 2017, , .		5
47	LineMe: A platform for constructing evolving social networks. , 2017, , .		1
48	Quantization Effects on Complex Networks. Scientific Reports, 2016, 6, 26733.	3.3	3
49	Swarming of heterogeneous multi-agent systems with periodically intermittent control. Neurocomputing, 2016, 207, 213-219.	5.9	22
50	Network reconstruction based on grouped sparse nonlinear graphical granger causality. , 2016, , .		3
51	Nonnegative edge consensus of networked linear systems. , 2016, , .		5
52	Second-Order Consensus of Multi-agent Systems via Periodically Intermittent Pinning Control. Circuits, Systems, and Signal Processing, 2016, 35, 2413-2431.	2.0	25
53	An overview of coordinated control for multi-agent systems subject to input saturation. Perspectives in Science, 2016, 7, 133-139.	0.6	20
54	Relative influence maximization in competitive dynamics on complex networks. , 2015, , .		4

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55	Connectivity maintenance and distributed tracking for double-integrator agents with bounded potential functions. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 542-558.	3.7	14
56	Observer-based robust coordinated tracking of multi-agent systems with input saturation. , 2015, , .		2
57	Multi-agent model of group polarisation with biased assimilation of arguments. <i>IET Control Theory and Applications</i> , 2015, 9, 485-492.	2.1	7
58	Semi-global consensus of multi-agent systems with intermittent communications and low-gain feedback. <i>IET Control Theory and Applications</i> , 2015, 9, 766-774.	2.1	37
59	Global coordinated tracking of multi-agent systems with disturbance uncertainties via bounded control inputs. <i>Nonlinear Dynamics</i> , 2015, 82, 2059-2068.	5.2	24
60	Limit set problem of multi-agent systems with finite states: An eigenvalue-based approach. <i>Journal of Systems Science and Complexity</i> , 2015, 28, 570-579.	2.8	1
61	Swarm aggregations of heterogeneous multi-agent systems. <i>International Journal of Control</i> , 2014, 87, 2594-2603.	1.9	4
62	Optimal periodic scheduling for remote state estimation under sensor energy constraint. <i>IET Control Theory and Applications</i> , 2014, 8, 907-915.	2.1	4
63	Towards data-driven identification and control of complex networks. <i>National Science Review</i> , 2014, 1, 335-336.	9.5	4
64	Optimal control over a lossy communication network based on linear predictive compensation. <i>IET Control Theory and Applications</i> , 2014, 8, 2297-2304.	2.1	3
65	A multi-agent model of opinion formation with group polarization. , 2014, , .		0
66	Optimal leader selection for fast consensus via consensus centrality. , 2014, , .		1
67	Pinning control of complex networked systems: A decade after and beyond. <i>Annual Reviews in Control</i> , 2014, 38, 103-111.	7.9	80
68	Stochastic sensor activation for distributed state estimation over a sensor network. <i>Automatica</i> , 2014, 50, 2070-2076.	5.0	117
69	Robust consensus for multi-agent systems over unbalanced directed networks. <i>Journal of Systems Science and Complexity</i> , 2014, 27, 1121-1137.	2.8	2
70	Social learning with time-varying weights. <i>Journal of Systems Science and Complexity</i> , 2014, 27, 581-593.	2.8	21
71	Semiglobal Observer-Based Leader-Following Consensus With Input Saturation. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 2842-2850.	7.9	265
72	Quantized consensus over directed networks with switching topologies. <i>Systems and Control Letters</i> , 2014, 65, 13-22.	2.3	66

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73	A Multi-Agent Model of Opinion Formation with Truth Seeking and Endogenous Leaders. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11709-11714.	0.4	5
74	Competitive Dynamics on Complex Networks. Scientific Reports, 2014, 4, 5858.	3.3	23
75	Connectivity Preserving Flocking without Velocity Measurement. Asian Journal of Control, 2013, 15, 521-532.	3.0	15
76	Consensus seeking over directed networks with limited information communication. Automatica, 2013, 49, 610-618.	5.0	59
77	A new pricing mechanism for power control in multicell wireless data networks. , 2013, , .		1
78	Optimal two-sensor scheduling under duty cycle constraint. Systems and Control Letters, 2013, 62, 1175-1179.	2.3	3
79	Second-order leader-following consensus of multi-agent systems with nonlinear dynamics and time delay via periodically intermittent pinning control. , 2013, , .		2
80	Fast consensus seeking in multi-agent systems with time delay. Systems and Control Letters, 2013, 62, 269-276.	2.3	61
81	Social learning with bounded confidence and heterogeneous agents. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2368-2374.	2.6	19
82	Optimal linear state estimation over a packet-dropping network using linear temporal coding. Automatica, 2013, 49, 1075-1082.	5.0	24
83	Distributed Pinning-Controlled Second-Order Consensus of Multi-Agent Systems. , 2013, , 61-101.		0
84	Adaptive flocking with a virtual leader of multiple agents governed by locally Lipschitz nonlinearity. Nonlinear Analysis: Real World Applications, 2013, 14, 798-806.	1.7	73
85	Distributed quantized consensus for agents on directed networks. Journal of Systems Science and Complexity, 2013, 26, 489-511.	2.8	7
86	Swarming of multi-agents with topological-based random interaction. , 2013, , .		4
87	Adaptive cluster synchronisation of coupled harmonic oscillators with multiple leaders. IET Control Theory and Applications, 2013, 7, 765-772.	2.1	35
88	Decentralized Adaptive Pinning Control for Cluster Synchronization of Complex Dynamical Networks. IEEE Transactions on Cybernetics, 2013, 43, 394-399.	9.5	241
89	Performance analysis for remote state estimation via measurement combination* *This work is supported by the National Natural Science Foundation of China under Grant No. 61074125 and 61104137, the Science Fund for Creative Research Groups of the National Natural Science Foundation of China (No. 61221003), and the National Key Basic Research Program (973 Program) of China (No.) Tj ETQq1 1 0.784314 rgbT /Overflock 10	0.4	0
90	Pinning Control of Complex Networked Systems. , 2013, , .		62

#	ARTICLE	IF	CITATIONS
91	Pinning Control for Complete Synchronization of Complex Dynamical Networks. , 2013, , 17-44.		1
92	Adaptive group consensus of coupled harmonic oscillators with multiple leaders. , 2012, , .		1
93	Social learning with bounded confidence. , 2012, , .		0
94	State estimation over a lossy network using linear temporal coding. , 2012, , .		0
95	Social learning in networks with time-varying topologies. , 2012, , .		3
96	Quantized consensus for agents on digraphs. , 2011, , .		5
97	Eigenvalue-based investigation of multi-agent system with logical dynamics. , 2011, , .		0
98	Adaptive second-order consensus of networked mobile agents with nonlinear dynamics. Automatica, 2011, 47, 368-375.	5.0	471
99	New conditions for synchronization in dynamical communication networks. Systems and Control Letters, 2011, 60, 219-225.	2.3	10
100	Social learning on networks with community structure. , 2011, , .		0
101	Partitioning graphs to speed up point-to-point shortest path computations. , 2011, , .		1
102	Distributed consensus over directed networks with limited information communication. , 2011, , .		3
103	Optimal consensus-based distributed estimation with intermittent communication. International Journal of Systems Science, 2011, 42, 1521-1529.	5.5	28
104	Controlling a complex dynamical network to attain an inhomogeneous equilibrium. Physica D: Nonlinear Phenomena, 2010, 239, 341-347.	2.8	10
105	Rendezvous of multiple mobile agents with preserved network connectivity. Systems and Control Letters, 2010, 59, 313-322.	2.3	241
106	Control and Flocking of Networked Systems via Pinning. IEEE Circuits and Systems Magazine, 2010, 10, 83-91.	2.3	76
107	On decentralized adaptive pinning synchronization of complex dynamical networks. , 2010, , .		7
108	Synchronization of coupled harmonic oscillators in a dynamic proximity network. Automatica, 2009, 45, 2286-2291.	5.0	178

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109	Flocking of Multi-Agents With a Virtual Leader. IEEE Transactions on Automatic Control, 2009, 54, 293-307.	5.7	778
110	A connectivity-preserving flocking algorithm for multi-agent systems based only on position measurements. International Journal of Control, 2009, 82, 1334-1343.	1.9	155
111	Flocking in multi-agent systems with multiple virtual leaders. Asian Journal of Control, 2008, 10, 238-245.	3.0	110
112	Stability of a second order consensus algorithm with time delay. , 2008, , .		30
113	Pinning control of directed dynamical networks based on ControlRank. International Journal of Computer Mathematics, 2008, 85, 1279-1286.	1.8	19
114	Synchronizability is Enhanced in Homogeneous Small-world Networks. , 2007, , .		0
115	Enhancing Synchronizabilities of Power-Law Networks. , 2007, , .		1
116	Adaptive velocity strategy for swarm aggregation. Physical Review E, 2007, 75, 021917.	2.1	43
117	Synchronization in weighted complex networks: Heterogeneity and synchronizability. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 381-389.	2.6	22
118	Topological transition features and synchronizability of a weighted hybrid preferential network. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 841-850.	2.6	20
119	Consensus in a heterogeneous influence network. Physical Review E, 2006, 74, 037101.	2.1	36
120	Towards Optimal Synchronization in Power Law Networks. , 2006, , .		0
121	On synchronization in scale-free dynamical networks. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 443-451.	2.6	62
122	Cascading failures in scale-free coupled map lattices. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 685-692.	2.6	48
123	On synchronous preference of complex dynamical networks. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 657-666.	2.6	34
124	Nonlinear analysis of RED—a comparative study. Chaos, Solitons and Fractals, 2004, 21, 1153-1162.	5.1	12
125	Pinning a Complex Dynamical Network to Its Equilibrium. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 2074-2087.	0.1	829
126	Complex networks: Small-world, scale-free and beyond. IEEE Circuits and Systems Magazine, 2003, 3, 6-20.	2.3	1,048

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127	BIFURCATION TAILORING VIA NEWTON FLOW-AIDED ADAPTIVE CONTROL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 677-684.	1.7	7
128	SYNCHRONIZATION IN SMALL-WORLD DYNAMICAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 187-192.	1.7	772
129	COMPLEX NETWORKS: TOPOLOGY, DYNAMICS AND SYNCHRONIZATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 885-916.	1.7	496
130	Synchronization in scale-free dynamical networks: robustness and fragility. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 54-62.	0.1	982
131	Pinning control of scale-free dynamical networks. Physica A: Statistical Mechanics and Its Applications, 2002, 310, 521-531.	2.6	868
132	Generating chaos in Chua's circuit via time-delay feedback. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 1151-1156.	0.1	74
133	Making a continuous-time minimum-phase system chaotic by using time-delay feedback. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 641-645.	0.1	36
134	Controlling bifurcating dynamics via chaotification. , 0, , .		0