Zhongxin Liu

List of Publications by Year
in descending order

93	1,488	331670 21	361022 35
papers	citations	h-index	g-index

94	94	94	1040
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Distributed Adaptive Fault-Tolerant Control for Multiagent Systems via Virtual-Actuator-Based Reconfiguration. IEEE Transactions on Cybernetics, 2023, 53, 7497-7508.	9.5	7
2	A State Space Approach to Decentralized Fault SE-Coprognosability of Partially Observed Discrete Event Systems. IEEE Transactions on Cybernetics, 2023, 53, 2028-2033.	9.5	3
3	Linear Convergence of ADMM Under Metric Subregularity for Distributed Optimization. IEEE Transactions on Automatic Control, 2023, 68, 2513-2520.	5.7	2
4	Necessary and Sufficient Conditions for Leaderâ€“Follower Consensus of Discrete-Time Multiagent Systems With Smart Leader. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2779-2788.	9.3	4
5	Finite-Time Leader-Following Consensus of Multiagent Systems With Actuator Faults and Input Saturation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3314-3325.	9.3	32
6	Robust faultâ€tolerant consensus control for nonlinear multiâ€agent systems with prescribed transient and steadyâ€state performance. Asian Journal of Control, 2022, 24, 642-658.	3.0	13
7	A Distributed Adaptive Fault-Tolerant Control Approach Utilizing Fuzzy Logic Method for Heterogeneous Multi-agent Systems. Lecture Notes in Electrical Engineering, 2022, , 777-789.	0.4	0
8	Distributed robust faultâ€tolerant consensus tracking control for multiâ€agent systems with exogenous disturbances under switching topologies. International Journal of Robust and Nonlinear Control, 2022, 32, 1618-1632.	3.7	6
9	Anonymous Privacy-Preserving Consensus via Mixed Encryption Communication. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3445-3449.	3.0	2
10	Event-Triggered Control for Weighted Networked Evolutionary Games With Threshold. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3515-3519.	3.0	0
11	Error-constrained Coordinated Tracking Control for High-order Multiagent Systems Based on Barrier Lyapunov Function. International Journal of Control, Automation and Systems, 2022, 20, 1238-1249.	2.7	2
12	Formation control for discreteâ€time heterogeneous multiâ€agent systems. International Journal of Robust and Nonlinear Control, 2022, 32, 5848-5865.	3.7	10
13	General decay projective synchronization of memristive competitive neural networks via nonlinear controller. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 867-878.	1.0	2
14	Distributed fault-tolerant containment control for a class of non-linear multi-agent systems via event-triggered mechanism. Applied Mathematics and Computation, 2022, 430, 127250.	2.2	2
15	Sampled-Hold-Based Consensus Control for Second-Order Multiagent Systems Under Aperiodically Intermittent Communication. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3794-3803.	5.4	6
16	Modeling and optimization control of networked evolutionary games with heterogeneous memories and switched topologies. Knowledge-Based Systems, 2022, 252, 109378.	7.1	4
17	Observability analysis of combined finite automata based upon semi-tensor product of matrices approach. Transactions of the Institute of Measurement and Control, 2021, 43, 717-727.	1.7	9
18	Projective synchronization analysis for BAM neural networks with time-varying delay via novel control. Nonlinear Analysis: Modelling and Control, 2021, 26, 41-56.	1.6	9

#	Article	IF	Citations
19	The greedy crowd and smart leaders: a hierarchical strategy selection game with learning protocol. Science China Information Sciences, 2021, 64, 1.	4.3	1
20	A novel bilateral protocol in the bipartite network based on the public goods game. Knowledge-Based Systems, 2021, 214, 106721.	7.1	2
21	Faultâ€tolerant consensus for switched multiagent systems with input saturation. International Journal of Robust and Nonlinear Control, 2021, 31, 5047-5068.	3.7	7
22	Privacy-Preserving Leader-Following Consensus via Node-Augment Mechanism. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2117-2121.	3.0	10
23	Distributed robust fault-tolerant consensus control for a class of nonlinear multi-agent systems with intermittent communications. Applied Mathematics and Computation, 2021, 403, 126166.	2.2	23
24	Sampled data based containment control of second-order multi-agent systems under intermittent communications. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 1059-1067.	2.6	0
25	Distributed fault-tolerant consensus tracking control for multiple Lagrangian systems with preset error bound constraints. Journal of the Franklin Institute, 2021, 358, 6994-7012.	3.4	8
26	Reduced-Order Observer-Based Leader-Following Formation Control for Discrete-Time Linear Multi-Agent Systems. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1715-1723.	13.1	16
27	Three kinds of coprognosability for partially-observed discrete event systems via a matrix approach. Nonlinear Analysis: Hybrid Systems, 2021, 42, 101073.	3.5	8
28	Event-triggered fault-tolerant consensus control with control allocation in leader-following multi-agent systems. Science China Technological Sciences, 2021, 64, 879-889.	4.0	18
29	An intelligent hand-washing monitoring platform based on gesture recognition technology. , 2021, , .		1
30	Modeling, Reachability and Controllability of Bounded Petri Nets Based on Semiâ€Tensor Product of Matrices. Asian Journal of Control, 2020, 22, 500-510.	3.0	9
31	Mean square consensus of uncertain discrete-time stochastic multi-agent systems with x-dependent noise. Journal of Control and Decision, 2020, 7, 196-213.	1.6	6
32	Leader-following Exponential Consensus of Discrete-time Multi-agent Systems with Time-varying Delay and Intermittent Communication. International Journal of Control, Automation and Systems, 2020, 18, 944-954.	2.7	12
33	Leader-following Hâˆž consensus of discrete-time nonlinear multi-agent systems based upon output feedback control. Transactions of the Institute of Measurement and Control, 2020, 42, 1323-1333.	1.7	10
34	Finite/fixed-time consensus of nonlinear multi-agent systems against actuator faults and disturbances. Transactions of the Institute of Measurement and Control, 2020, 42, 3254-3266.	1.7	5
35	Stabilization of probabilistic finite automata based on semi-tensor product of matrices. Journal of the Franklin Institute, 2020, 357, 5173-5186.	3.4	16
36	Delay-Induced Containment Control of Second-Order Multi-Agent Systems With Intermittent Sampled Position Data. IEEE Access, 2020, 8, 20334-20341.	4.2	3

#	Article	IF	Citations
37	Semi-Tensor Product of Matrices Approach to the Problem of Fault Detection for Discrete Event Systems (DESs). IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3098-3102.	3.0	19
38	Exponential synchronization of neural networks with discontinuous activations. , 2020, , .		1
39	Observability Analysis of Composite Automata based on Algebraic State Space. , 2020, , .		0
40	A novel matrix approach for the stability and stabilization analysis of colored Petri nets. Science China Information Sciences, 2019, 62, 1.	4.3	11
41	Leader-following consensus of second-order nonlinear multi-agent systems with intermittent position measurements. Science China Information Sciences, 2019, 62, 1.	4.3	21
42	Reachability and controllability analysis of probabilistic finite automata via a novel matrix method. Asian Journal of Control, 2019, 21, 2578-2586.	3.0	8
43	On the static output feedback stabilisation of discrete event dynamic systems based upon the approach of semi-tensor product of matrices. International Journal of Systems Science, 2019, 50, 1595-1608.	5.5	11
44	Containment control for second-order nonlinear multi-agent systems with intermittent communications. International Journal of Systems Science, 2019, 50, 919-934.	5.5	19
45	Consensus analysis for multi-agent systems with a smart leader. , 2019, , .		2
46	Observability Analysis of Parallel Combining Automata based on Algebraic State Space. , 2019, , .		1
47	A novel complex network link prediction framework via combining mutual information with local naive Bayes. Chaos, 2019, 29, 113110.	2.5	6
48	Modeling and analysis of colored petri net based on the semi-tensor product of matrices. Science China Information Sciences, 2018, 61, 1.	4.3	17
49	The detection and stabilisation of limit cycle for deterministic finite automata. International Journal of Control, 2018, 91, 874-886.	1.9	18
50	Modeling and reachability of probabilistic finite automata based on semi-tensor product of matrices. Science China Information Sciences, 2018, 61, 1.	4.3	26
51	Distributed Tracking Control for Second-Order Multi-Agent Systems with Aperiodically Intermittent Position Measurements. , 2018, , .		1
52	Distributed Optimization with Finite-Time Convergence via Discontinuous Dynamics. , 2018, , .		7
53	A Novel Matrix Approach to Static Output Feedback Stabilization of Discrete Event Dynamic Systems. , 2018, , .		0
54	Distributed containment control for secondâ€order multiagent systems with time delay and intermittent communication. International Journal of Robust and Nonlinear Control, 2018, 28, 5730-5746.	3.7	35

#	Article	IF	Citations
55	Event-Triggered Consensus for Multiple Nonholonomic Systems. Journal of Systems Science and Complexity, 2018, 31, 1227-1243.	2.8	1
56	Calculation of Siphons and Minimal Siphons in Petri Nets Based on Semi-Tensor Product of Matrices. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 531-536.	9.3	50
57	Containment control of leader-following multi-agent systems with jointly-connected topologies and time-varying delays. Neurocomputing, 2017, 260, 341-348.	5.9	51
58	A leader-based cooperation-prompt protocol for the prisoner's dilemma game in multi-agent systems. , 2017, , .		2
59	Modified leader-following consensus of time-delay multi-agent systems via sampled control and smart leader. International Journal of Control, Automation and Systems, 2017, 15, 2526-2537.	2.7	11
60	Mean square containment control of second-order multi-agent systems with jointly-connected topologies. , 2017, , .		2
61	Leader-following consensus of switched multi-agent systems with general second-order dynamics. , 2017, , .		5
62	Second-Order Containment Control of Multiagent Systems in the Presence of Uncertain Topologies with Time-Varying Delays. Journal of Control Science and Engineering, 2017, 2017, 1-7.	1.0	2
63	Leader-following consensus of second-order multi-agent systems with a smart leader. , 2017, , .		8
64	Leader-following consensus for double-integrator dynamics with sampled-data. , 2016, , .		0
65	Calculating basis siphons of Petri nets based on semi-tensor product of matrices. , 2016, , .		2
66	Evolutionary dynamics and individual heterogeneity in multi-agent networking systems. , 2016, , .		1
67	Fostering cooperation of selfish agents through public goods in relation to the loners. Physical Review E, 2016, 93, 032320.	2.1	20
68	Distributed Optimization Over Weight-Balanced Digraphs with Event-Triggered Communication. Lecture Notes in Electrical Engineering, 2016, , 489-504.	0.4	6
69	Leader-following consensus of multi-agent system with a smart leader. Neurocomputing, 2016, 214, 401-408.	5.9	35
70	Distributed subgradient algorithm for multi-agent optimization with directed communication topology. IFAC-PapersOnLine, 2015, 48, 863-868.	0.9	2
71	A novel observer-based formation for nonlinear multi-agent systems with time delay and intermittent communication. Nonlinear Dynamics, 2015, 79, 1651-1664.	5.2	60
72	Impulsive observer-based consensus control for multi-agent systems with time delay. International Journal of Control, 2015, 88, 1789-1804.	1.9	23

#	Article	IF	Citations
73	Distributed containment control for bounded unknown second-order nonlinear multi-agent systems with dynamic leaders. Neurocomputing, 2015, 168, 1138-1143.	5.9	35
74	Distributed formation control for a multi-agent system with dynamic role assignment. , 2015, , .		0
75	Semi-tensor product approach to controllability and stabilizability of finite automata. Journal of Systems Engineering and Electronics, 2015, 26, 134-141.	2.2	45
76	Semi-tensor product of matrices approach to reachability of finite automata with application to language recognition. Frontiers of Computer Science, 2014, 8, 948-957.	2.4	28
77	Output regulation distributed formation control for nonlinear multi-agent systems. Nonlinear Dynamics, 2014, 78, 1339-1348.	5.2	8
78	Robust Hâˆž formation control for multi-agent systems with nonlinear dynamics and time-varying delay. , 2014, , .		4
79	Modelling combined automata via semi-tensor product of matrices. , 2014, , .		2
80	A novel disturbance-observer based friction compensation scheme for ball and plate system. ISA Transactions, 2014, 53, 671-678.	5.7	48
81	Solving type-2 fuzzy relation equations via semi-tensor product of matrices. Control Theory and Technology, 2014, 12, 173-186.	1.6	26
82	Formation control for nonlinear multi-agent systems by robust output regulation. Neurocomputing, 2014, 140, 114-120.	5.9	29
83	Neural-networks-based distributed output regulation of multi-agent systems with nonlinear dynamics. Neurocomputing, 2014, 125, 81-87.	5.9	13
84	Leader-following formation control for second-order multiagent systems with time-varying delay and nonlinear dynamics. Nonlinear Dynamics, 2013, 72, 803-812.	5.2	106
85	Impulsive Formation Control Algorithms for Leader-following Second-order Nonlinear Multi-agent Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 172-177.	0.4	6
86	Discarded consensus of multi-agent systems with state constraint. , 2012, , .		0
87	Event-triggered average-consensus of multi-agent systems with weighted and direct topology. Journal of Systems Science and Complexity, 2012, 25, 845-855.	2.8	78
88	Coordinative control of multi-agent systems using distributed nonlinear output regulation. Nonlinear Dynamics, 2012, 67, 1871-1881.	5.2	29
89	Reaching a consensus via pinning control. Automatica, 2009, 45, 1215-1220.	5.0	200
90	Finite time agreement protocol design of multiâ€agent systems with communication delays. Asian Journal of Control, 2009, 11, 281-286.	3.0	36

#	Article	IF	Citations
91	Comparison between pinning control of different chaotic complex dynamical networks. Journal of Control Theory and Applications, 2008, 6, 2-10.	0.8	5
92	Decentralized formation control of mobile agents: A unified framework. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4917-4926.	2.6	37
93	Fuzzy fault-tolerant containment control for multi-agent systems with unknown nonlinear dynamics. Transactions of the Institute of Measurement and Control, 0, , 014233122110430.	1.7	1