

Zhi-Wei Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

2,080
citations

20
h-index

43
g-index

155
ext. papers

2,766
ext. citations

4.4
avg, IF

5.55
L-index

#	Paper	IF	Citations
110	Secure stabilization of singularly perturbed switched systems under deception attacks. <i>Nonlinear Dynamics</i> , 2022 , 108, 683	5	2
109	Distributed Secondary Control for Voltage Regulation and Optimal Power Sharing in DC Microgrids. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-12	4.8	0
108	Predefined-time Stabilization of T-S Fuzzy Systems: A Novel Integral Sliding Mode based Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2022 , 1-1	8.3	2
107	In situ fabrication of porous biochar reinforced W18O49 nanocomposite for methylene blue photodegradation. <i>RSC Advances</i> , 2022 , 12, 14902-14911	3.7	1
106	Multitarget Tracking for Multiple Lagrangian Plants With Input-to-Output Redundancy and Sampled-Data Interactions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-12	7.3	4
105	Model Predictive Direct Power Control of Grid-connected Converters Considering Unbalanced Filter Inductance and Grid Conditions. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021 , 9, 1279-1288	4.288	1
104	Distributed Event-Triggered Synchronization of Interconnected Linear Two-Time-Scale Systems With Switching Topology. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	2
103	Secure and Privacy-Preserving Formation Control for Networked Marine Surface Vehicles with Sampled-Data Interactions. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	2
102	Distributed Observer-Based H _∞ Fault-Tolerant Control for DC Microgrids With Sensor Fault. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 1659-1670	3.9	4
101	Intermittent Sampled Data Control for Time-Varying Formation-Containment of the Multiagent System with/without Time Delay. <i>Complexity</i> , 2021 , 2021, 1-9	1.6	1
100	Resilient Consensus of Multi-Agent Systems With Switching Topologies: A Trusted-Region-Based Sliding-Window Weighted Approach. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 2448-2452	3.5	6
99	Output Multiformalion Tracking of Networked Heterogeneous Robotic Systems via Finite-Time Hierarchical Control. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 2893-2904	10.2	19
98	Transmission Lines Overload Alleviation: Distributed Online Optimization Approach. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 3197-3208	11.9	6
97	Predefined-time formation tracking control of networked marine surface vehicles. <i>Control Engineering Practice</i> , 2021 , 107, 104682	3.9	19
96	Force-reflecting hierarchical approach for human-aided teleoperation of NRS with event-triggered local communication. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	7
95	Recent progress on the study of distributed economic dispatch in smart grid: an overview. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2021 , 22, 25-39	2.2	5
94	Trusted-Region Subsequence Reduction for Designing Resilient Consensus Algorithms. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 8, 259-268	4.9	3

93	A novel sliding surface design for predefined-time stabilization of Euler-Lagrange systems. <i>Nonlinear Dynamics</i> , 2021 , 106, 445-458	5	6
92	. <i>IEEE Transactions on Education</i> , 2021 , 64, 276-282	2.1	4
91	Distributed CPS-Based Secondary Control of Microgrids with Optimal Power Allocation and Limited Communication. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	2
90	Distributed control of heterogeneous multi-agent systems with unknown control directions via event/self-triggered communication. <i>Journal of the Franklin Institute</i> , 2020 , 357, 12163-12179	4	1
89	Fault-tolerant control of singularly perturbed systems with actuator faults and disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 4550-4564	3.6	1
88	Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 4017-4031	10.7	23
87	Distributed leaderless impulsive consensus of non-linear multi-agent systems with input saturation. <i>Nonlinear Analysis: Hybrid Systems</i> , 2020 , 36, 100855	4.5	9
86	Data-driven based optimal distributed frequency control for islanded AC microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 119, 105904	5.1	7
85	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 1402-1412	3.9	29
84	Multiconsensus of Second-Order Multiagent Networks via Pulse-Modulated Intermittent Control. <i>Complexity</i> , 2020 , 2020, 1-8	1.6	1
83	Neuro-adaptive fixed-time trajectory tracking control for human-in-the-loop teleoperation with mixed communication delays. <i>IET Control Theory and Applications</i> , 2020 , 14, 3193-3203	2.5	2
82	Distributed Impulsive Control for Signed Networks of Coupled Harmonic Oscillators With Sampled Positions. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 1-1	4	6
81	Transcriptome analysis and identification of genes associated with chicken sperm storage duration. <i>Poultry Science</i> , 2020 , 99, 1199-1208	3.9	8
80	Short-Term Residential Load Forecasting Based on Smart Meter Data Using Temporal Convolutional Networks 2020 ,		1
79	Unified 3-D Interactive Human-Centered System for Online Experimentation: Current Deployment and Future Perspectives. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 1-1	11.9	8
78	Quasi-Synchronization of Heterogeneous Networks With a Generalized Markovian Topology and Event-Triggered Communication. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4200-4213	10.2	15
77	Charging stations expansion planning under government policy driven based on Bayesian regularization backpropagation learning. <i>Neurocomputing</i> , 2020 , 416, 47-58	5.4	2
76	Hierarchical Controller-Estimator for Coordination of Networked Euler-Lagrange Systems. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 2450-2461	10.2	41

75	Delayed Impulsive Control for Consensus of Multiagent Systems With Switching Communication Graphs. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3045-3055	10.2	49
74	Lag-Bipartite Formation Tracking of Networked Robotic Systems Over Directed Matrix-Weighted Signed Graphs. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	6
73	Resilient Delayed Impulsive Control for Consensus of Multiagent Networks Subject to Malicious Agents. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	2
72	Multi-target tracking of networked heterogeneous collaborative robots in task space. <i>Nonlinear Dynamics</i> , 2019 , 97, 1159-1173	5	25
71	Schooling for multi-agent systems via impulsive containment control algorithms with quantized information. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 828-841	1.8	2
70	Scale-based cluster formation for multi-agent systems with mismatched disturbances. <i>Journal of the Franklin Institute</i> , 2019 , 356, 7393-7410	4	4
69	Asynchronous impulsive control for consensus of second-order multi-agent networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 79, 104892	3.7	8
68	Impulsive Control of Multi-agent Systems with Partial Information 2019 , 1-37		
67	Formation-containment control of multiple underactuated surface vessels with sampling communication via hierarchical sliding mode approach. <i>ISA Transactions</i> , 2019 ,	5.5	8
66	Branch-Wise Parallel Successive Algorithm for Online Voltage Regulation in Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6678-6689	10.7	20
65	Distributed optimal active power dispatch with energy storage units and power flow limits in smart grids. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 105, 420-428	5.1	18
64	HTML5-Based 3-D Online Control Laboratory With Virtual Interactive Wiring Practice. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2473-2483	11.9	16
63	Adaptive Consensus-Based Robust Strategy for Economic Dispatch of Smart Grids Subject to Communication Uncertainties. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2484-2496	11.9	94
62	Modular Web-Based Interactive Hybrid Laboratory Framework for Research and Education. <i>IEEE Access</i> , 2018 , 6, 20152-20163	3.5	17
61	Sampled intermittent control for consensus of multi-agent systems with variable activated intervals. <i>Transactions of the Institute of Measurement and Control</i> , 2018 , 40, 1521-1528	1.8	0
60	Cooperative Tracking of Networked Agents With a High-Dimensional Leader: Qualitative Analysis and Performance Evaluation. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 2060-2073	10.2	33
59	Fixed-Time Consensus-Based Scheme for Economic Dispatch of Smart Grid. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 373-381	0.2	
58	Distributed Consensus-Based Optimization of Multiple Load Aggregators for Secondary Frequency Control. <i>Asian Journal of Control</i> , 2018 , 20, 943-955	1.7	2

57	Modeling and Synchronization Stability of Low-Voltage Active Distribution Networks With Large-Scale Distributed Generations. <i>IEEE Access</i> , 2018 , 6, 70989-71002	3.5	7
56	Region growing for image segmentation using an extended PCNN model. <i>IET Image Processing</i> , 2018 , 12, 729-737	1.7	20
55	Pulse-Modulated Intermittent Control in Consensus of Multiagent Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 783-793	7.3	139
54	Distributed consensus tracking with stochastic quantization via pulse-modulated intermittent control. <i>Journal of the Franklin Institute</i> , 2017 , 354, 3485-3501	4	5
53	Hierarchical Distributed Scheme for Demand Estimation and Power Reallocation in a Future Power Grid. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 2279-2290	11.9	19
52	Plug-in Free Web-Based 3-D Interactive Laboratory for Control Engineering Education. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 3808-3818	8.9	36
51	Stability and Hopf bifurcation of fractional genetic regulatory networks with diffusion 1 1This work was partially supported by the National Natural Science Foundation of China under Grants 61473128, 61672245, 61472374, 61503129 and 61572208.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10443-10448	0.7	5
50	2017 ,		2
49	Consensus analysis for multi-agent systems via periodic event-triggered algorithms with quantized information. <i>Journal of the Franklin Institute</i> , 2017 , 354, 6364-6380	4	3
48	Coordinated tracking for networked robotic systems via model-free controller&estimator algorithms. <i>Journal of the Franklin Institute</i> , 2017 , 354, 5646-5666	4	8
47	Distributed event-triggered consensus of general linear multi-agent systems with quantised measurements. <i>IET Control Theory and Applications</i> , 2017 , 11, 308-318	2.5	10
46	Sampled containment control for multi-agent systems with nonlinear dynamics. <i>Neurocomputing</i> , 2017 , 219, 242-247	5.4	10
45	Robust Average Formation Tracking for Multi-Agent Systems With Multiple Leaders. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2427-2432	0.7	2
44	Cluster formation for multi-agent systems under disturbances and unmodelled uncertainties. <i>IET Control Theory and Applications</i> , 2017 , 11, 2630-2635	2.5	4
43	Adaptive neural network control for quadrotor unmanned aerial vehicles 2017 ,		10
42	Distributed Optimal Day-Ahead Scheduling in a Smart Grid: A Trade-Off among Consumers, Power Suppliers, and Transmission Owners. <i>Complexity</i> , 2017 , 2017, 1-11	1.6	1
41	Optimal tracking performance of discrete-time systems with quantization. <i>Journal of Nonlinear Science and Applications</i> , 2017 , 10, 1873-1880	1.9	2
40	Coordination of networked delayed singularly perturbed systems with antagonistic interactions and switching topologies. <i>Nonlinear Dynamics</i> , 2017 , 89, 741-754	5	8

39	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1775-1785	11.9	217
38	Simplified parameters model of PCNN and its application to image segmentation. <i>Pattern Analysis and Applications</i> , 2016 , 19, 939-951	2.3	14
37	Leader-follower flocking based on distributed event-triggered hybrid control. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 143-153	3.6	31
36	Wide-area multiple line-outages detection in power complex networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 79, 132-141	5.1	17
35	Asynchronous impulsive containment control in switched multi-agent systems. <i>Information Sciences</i> , 2016 , 370-371, 667-679	7.7	40
34	Distributed power control for DERs based on networked multiagent systems with communication delays. <i>Neurocomputing</i> , 2016 , 179, 135-143	5.4	33
33	Impulsive coordination of nonlinear multi-agent systems with multiple leaders and stochastic disturbance. <i>Neurocomputing</i> , 2016 , 171, 73-81	5.4	11
32	Pulse-modulated intermittent control for consensus of multi-agent systems with switching topology 2016 ,		1
31	Second-order consensus of multi-agent systems with nonlinear dynamics and time-varying delays via impulsive control 2016 ,		1
30	Reactive power compensation in microgrids via distributed control strategy 2016 ,		1
29	Bounded synchronization of coupled Kuramoto oscillators with phase lags via distributed impulsive control. <i>Neurocomputing</i> , 2016 , 218, 216-222	5.4	9
28	Minimisation of local within-class variance for image segmentation. <i>IET Image Processing</i> , 2016 , 10, 608-615		4
27	A modified strategy of fuzzy clustering algorithm for image segmentation. <i>Soft Computing</i> , 2015 , 19, 3261-3272	3.5	15
26	Event-triggered consensus of general linear multi-agent systems with directed topology 2015 ,		1
25	Impulsive Containment Control in Nonlinear Multiagent Systems with Time-Delay. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-9	1.1	1
24	A distributed event-triggered transmission strategy for exponential consensus of general linear multi-agent systems with directed topology. <i>Journal of the Franklin Institute</i> , 2015 , 352, 5866-5881	4	31
23	Location and capacity design of congested intermediate facilities in networks. <i>Journal of Industrial and Management Optimization</i> , 2015 , 12, 449-470	2	3
22	Temperature Control via Affine Nonlinear Systems for Intermediate Point of Supercritical Once-Through Boiler Units. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-13	1.1	1

21	Web-based 3D Interactive Virtual Control Laboratory Based on NCSLab Framework. <i>International Journal of Online and Biomedical Engineering</i> , 2014 , 10, 10	0.8	9
20	Formation tracking of the second-order multi-agent systems using position-only information via impulsive control with input delays. <i>Applied Mathematics and Computation</i> , 2014 , 246, 572-585	2.7	16
19	Containment control for multi-agent systems via impulsive algorithms without velocity measurements. <i>IET Control Theory and Applications</i> , 2014 , 8, 2033-2044	2.5	18
18	Modelling and Practical Implementation of 2-Coil Wireless Power Transfer Systems. <i>Journal of Electrical and Computer Engineering</i> , 2014 , 2014, 1-8	1.9	7
17	Impulsive Consensus Tracking of Multiagent Systems with Quantization and Input Delays Using Position-Only Information. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-10	1.1	2
16	Consensus of second-order multi-agent systems via impulsive control using sampled hetero-information. <i>Automatica</i> , 2013 , 49, 2881-2886	5.7	36
15	Consensus and performance optimisation of multi-agent systems with position-only information via impulsive control. <i>IET Control Theory and Applications</i> , 2013 , 7, 16-24	2.5	24
14	Distributed Impulsive Consensus of the Multiagent System without Velocity Measurement. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-8	0.7	2
13	Congestion Service Facilities Location Problem with Promise of Response Time. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-11	1.1	2
12	Impulsive Consensus for Leader-Following Multiagent Systems with Fixed and Switching Topology. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-10	1.1	3
11	Consensus of Multi-Agent Networks With Aperiodic Sampled Communication Via Impulsive Algorithms Using Position-Only Measurements. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2639-2643	5.9	171
10	Impulsive consensus algorithms for second-order multi-agent networks with sampled information. <i>Automatica</i> , 2012 , 48, 1397-1404	5.7	161
9	Drawing and ultimate tensile properties of nylon 6/nylon 6 clay composite fibers. <i>Polymer Engineering and Science</i> , 2012 , 52, 1348-1355	2.3	8
8	Drawing and ultimate tenacity properties of polyamide 6/attapulgitite composite fibers. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 1906-1916	2.9	8
7	Quantized Consensus of Multi-Agent Systems Via Broadcast Gossip Algorithms. <i>Asian Journal of Control</i> , 2012 , 14, 1634-1642	1.7	20
6	Drawing and ultimate tensile properties of modified polyamide 6 fibers. <i>Polymer Engineering and Science</i> , 2011 , 51, 755-763	2.3	6
5	Synchronization of Complex Dynamical Networks With Time-Varying Delays Via Impulsive Distributed Control. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 2182-2195	3.9	296
4	RES Introduced Through Flame Image Processing and Visualization of 3-D Temperature Distribution in a Coal-Fired Boiler Furnace 2005 , 795		3

3	A novel photodetector with new internal gain and short response time. <i>Sensors and Actuators A: Physical</i> , 1995 , 51, 125-128	3.9	1
2	Finite-time multi-target tracking of networked Euler-Lagrange systems via hierarchical active disturbance rejection control. <i>International Journal of Control</i> , 1-15	1.5	3
1	Distributed impulsive control for secure consensus of nonlinear dynamical networks with node delay under denial-of-service attacks. <i>Asian Journal of Control</i> ,	1.7	1