Zhenwei Liu

List of Publications by Year
in descending order

88 papers	1,475 citations	623574 14 h-index	330025 37 g-index
91 all docs	91 docs citations	91 times ranked	1093 citing authors

#	Article	IF	Citations
1	Novel Weighting-Delay-Based Stability Criteria for Recurrent Neural Networks With Time-Varying Delay. IEEE Transactions on Neural Networks, 2010, 21, 91-106.	4.8	383
2	The Small-Signal Stability Analysis of the Droop-Controlled Converter in Electromagnetic Timescale. IEEE Transactions on Sustainable Energy, 2019, 10, 1459-1469.	5.9	156
3	An efficient approach for reducing the conservatism of LMI-based stability conditions for continuous-time T–S fuzzy systems. Fuzzy Sets and Systems, 2015, 263, 71-81.	1.6	107
4	Novel Delay-Dependent Robust Stability Analysis for Switched Neutral-Type Neural Networks With Time-Varying Delays via SC Technique. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 1480-1491.	5.5	92
5	Novel Stability Analysis for Recurrent Neural Networks With Multiple Delays via Line Integral-Type L-K Functional. IEEE Transactions on Neural Networks, 2010, 21, 1710-1718.	4.8	84
6	Novel stability criterions of a new fuzzy cellular neural networks with time-varying delays. Neurocomputing, 2009, 72, 1056-1064.	3.5	83
7	Synchronization for Coupled Neural Networks With Interval Delay: A Novel Augmented Lyapunov–Krasovskii Functional Method. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 58-70.	7.2	82
8	Stability analysis for linear delayed systems via an optimally dividing delay interval approach. Automatica, 2011, 47, 2126-2129.	3.0	63
9	Sampled-Data Synchronization of Markovian Coupled Neural Networks With Mode Delays Based on Mode-Dependent LKF. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2626-2637.	7.2	50
10	Do the dependency conflicts in my project matter?. , 2018, , .		43
11	State synchronization of multi-agent systems via static or adaptive nonlinear dynamic protocols. Automatica, 2018, 95, 316-327.	3.0	32
12	Passivity based state synchronization of homogeneous discrete-time multi-agent systems via static protocol in the presence of input delay. European Journal of Control, 2018, 41, 16-24.	1.6	21
13	Passivity–based state synchronization of homogeneous multiagent systems via static protocol in the presence of input saturation. International Journal of Robust and Nonlinear Control, 2018, 28, 2720-2741.	2.1	20
14	Delay-dependent resilient-robust stabilisation of uncertain networked control systems with variable sampling intervals. International Journal of Systems Science, 2014, 45, 497-508.	3.7	19
15	Could I Have a Stack Trace to Examine the Dependency Conflict Issue?. , 2019, , .		19
16	H_∞ almost state synchronization for homogeneous networks of non-introspective agents: A scale-free protocol design. Automatica, 2020, 122, 109276.	3.0	16
17	Model-free optimal controller design for continuous-time nonlinear systems by adaptive dynamic programming based on a precompensator. ISA Transactions, 2015, 57, 63-70.	3.1	15
18	Distributed secondary voltage control of microgrids with actuators bias faults and directed communication topologies: Event–triggered approaches. International Journal of Robust and Nonlinear Control, 2022, 32, 4422-4437.	2.1	14

#	Article	IF	Citations
19	Optimal Energy Operation Strategy for We-Energy of Energy Internet Based on Hybrid Reinforcement Learning With Human-in-the-Loop. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 32-42.	5.9	13
20	Solvability conditions and design for synchronization of discrete‐time multiagent systems. International Journal of Robust and Nonlinear Control, 2018, 28, 1381-1401.	2.1	12
21	Novel compensation-based non-fragile H_{∞} control for uncertain neutral systems with time-varying delays. International Journal of Systems Science, 2012, 43, 961-971.	3.7	11
22	Global regulated state synchronization for homogeneous networks of non-introspective agents in presence of input saturation: Scale-free nonlinear and linear protocol designs. Automatica, 2020, 119, 109041.	3.0	11
23	Qualitative Analysis and Control of Complex Neural Networks with Delays. Studies in Systems, Decision and Control, 2016, , .	0.8	9
24	Cooperative Fault-Estimation-Based Event-Triggered Fault-Tolerant Voltage Restoration in Islanded AC Microgrids. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1829-1837.	3.4	9
25	Static output feedback stabilization for systems with time-varying delay based on a matrix transformation method. Science China Information Sciences, 2015, 58, 1-13.	2.7	8
26	Solvability conditions and design for H_{∞} & H2 almost state synchronization of homogeneous multi-agent systems. European Journal of Control, 2019, 46, 36-48.	1.6	8
27	Output and Regulated Output Synchronization of Heterogeneous Multi-agent Systems: A Scale-free Protocol Design using no Information about Communication Network and the Number of Agents. , 2020, , .		8
28	Regulated State Synchronization of Homogeneous Discrete-Time Multi-Agent Systems via Partial State Coupling in Presence of Unknown Communication Delays. IEEE Access, 2019, 7, 7021-7031.	2.6	8
29	Antagonistic Interactions-Based Adaptive Event-Triggered Bipartite Consensus Quantized Control for Stochastic Multiagent Systems. IEEE Systems Journal, 2022, 16, 5608-5619.	2.9	7
30	Scale-Free Cooperative Control of Inverter-Based Microgrids With General Time-Varying Communication Graphs. IEEE Transactions on Power Systems, 2022, 37, 2197-2207.	4.6	7
31	H 2 and H $_{\infty}$ almost output synchronization of heterogeneous continuous‐time multi‐agent systems with passive agents and partial‐state coupling via static protocol. International Journal of Robust and Nonlinear Control, 2019, 29, 6244-6255.	2.1	6
32	Squared‐down passivity‐based state synchronization of homogeneous continuous‐time multiagent systems via static protocol in the presence of time‐varying topology. International Journal of Robust and Nonlinear Control, 2019, 29, 3821-3840.	2.1	5
33	Delayed state synchronization of continuous-time multi-agent systems in the presence of unknown communication delays. , 2019, , .		4
34	Regulated State Synchronization for Homogeneous Networks of Non-introspective Agents in Presence of Input Delays: A Scale-Free Protocol Design. , 2020, , .		4
35	Delayed state synchronization of homogeneous discrete-time multi-agent systems in the presence of unknown communication delays. , 2019, , .		3
36	Scale-free protocol design for regulated state synchronization of homogeneous multi-agent systems with unknown and non-uniform input delays. Systems and Control Letters, 2021, 152, 104927.	1.3	3

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37	Scale‑free collaborative protocols for global regulated state synchronization of discrete‑time homogeneous networks of non‑introspective agents in presence of input saturation. International Journal of Robust and Nonlinear Control, 2022, 32, 5247-5267.	2.1	3
38	Scale-Free Collaborative Protocol Design for Output Synchronization of Heterogeneous Multi-Agent Systems With Nonuniform Communication Delays. IEEE Transactions on Network Science and Engineering, 2022, 9, 2882-2894.	4.1	3
39	Dissipativity and Invariant Sets for Neural Networks with Delay. Studies in Systems, Decision and Control, 2016, , 277-309.	0.8	2
40	Introduction to Neural Networks. Studies in Systems, Decision and Control, 2016, , 1-36.	0.8	2
41	State synchronization of homogeneous continuous-time multi-agent systems with time-varying communication topology in presence of input delay. , 2017, , .		2
42	Squared-down passivity based H_∞ almost synchronization of homogeneous continuous-time multi-agent systems with partial-state coupling via static protocol. , 2018, , .		2
43	Global and Semi-global Regulated State Synchronization for Homogeneous Networks of Non-introspective Agents in Presence of Input Saturation- A Scale-free Protocol Design. , 2019, , .		2
44	Scale-free collaborative protocol design for state and regulated state synchronization of multi-agent systems with arbitrary fast convergence. Journal of the Franklin Institute, 2021, 358, 4864-4882.	1.9	2
45	H_∞ distributed frequency control with unknown communication delays and parametric uncertainties. International Transactions on Electrical Energy Systems, 2021, 31, e13082.	1.2	2
46	H_∞ and H2 almost output and regulated output synchronization of heterogeneous multi-agent systems: A scale-free protocol design. Journal of the Franklin Institute, 2021, 358, 9841-9841.	1.9	2
47	Scale-free Linear Observer-based Protocol Design for Global Regulated State Synchronization of Homogeneous Multi-agent Systems with Non-introspective Agents Subject to Input Saturation. , 2020, , .		2
48	Regulated State Synchronization for Discrete-time Homogeneous Networks of Non-introspective Agents in Presence of Unknown Non-uniform Input Delays: A Scale-free Protocol Design. , 2020, , .		2
49	Greedy iterative DHP algorithm-based near-optimal control for a class of nonlinear descriptor systems with actuator saturating. , 2010, , .		1
50	Optimal Real-Time Price in Smart Grid via Recurrent Neural Network. Lecture Notes in Computer Science, 2016, , 152-159.	1.0	1
51	Adaptive Synchronization of Complex Neural Networks. Studies in Systems, Decision and Control, 2016, , 361-383.	0.8	1
52	Survey of Dynamics of Cohen‑Grossberg-Type RNNs. Studies in Systems, Decision and Control, 2016, , 91-172.	0.8	1
53	Solvability conditions and design for state synchronization of multi-agent systems. , 2017, , .		1
54	Passivity based delayed state synchronization of discrete-time multi-agent systems in presence of unknown communication delays. , 2018, , .		1

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55	State synchronization of a class of homogeneous linear multi-agent systems in the presence of unknown input delays via static protocols. European Journal of Control, 2019, 47, 20-29.	1.6	1
56	Squared-down passivity-based H_∞ and H2 almost synchronization of homogeneous continuous-time multi-agent systems with partial-state coupling via static protocol. European Journal of Control, 2020, 54, 73-86.	1.6	1
57	Scale‐free protocol design for delayed regulated synchronization of multi‐agent systems subject to unknown, nonuniform, and arbitrarily large communication delays. International Journal of Robust and Nonlinear Control, 2021, 31, 6369-6391.	2.1	1
58	Scale-free Design for Delayed Regulated Synchronization of Discrete-time Heterogeneous Multi-agent Systems subject to Unknown Non-uniform and Arbitrarily Large Communication Delays. , 2021, , .		1
59	H2 Almost State Synchronization of Homogeneous Multi-agent Systems–A Scale-free Design. , 2021, , .		1
60	Scale-free Protocol Design for H_∞ Almost Output and Regulated Output Synchronization of Heterogeneous Multi-agent Systems. , 2021, , .		1
61	Scale-free Protocol Design for Output Synchronization of Heterogeneous Multi-agent subject to Unknown, Non-uniform and Arbitrarily Large Input Delays. , 2020, , .		1
62	A New Fuzzy Increment Inverse Control for Unknown Nonlinear Discrete Dynamical System. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	0
63	H<inf>&#x221E;</inf> control for T-S fuzzy neutral systems with time-varying delays and actuator saturation. , 2009, , .		0
64	Nonlinear internal model control based on transformed fuzzy hyperbolic model. , 2009, , .		0
65	Stability analysis of higher-order recurrent neural networks with multiple delays. , 2010, , .		0
66	Novel exponential stability of reaction-diffusion cohen-grossberg neural networks. , 2010, , .		0
67	Synchronization Stability in Complex Neural Networks. Studies in Systems, Decision and Control, 2016, , 311-331.	0.8	0
68	Stabilization of Stochastic RNNs with Stochastic Delays. Studies in Systems, Decision and Control, 2016, , 333-360.	0.8	0
69	Delay-Partitioning-Method Based Stability Results for RNNs. Studies in Systems, Decision and Control, 2016, , 173-204.	0.8	0
70	LMI-based Passivity Criteria for RNNs with Delays. Studies in Systems, Decision and Control, 2016, , 259-276.	0.8	0
71	LMI-Based Stability Criteria for Static Neural Networks. Studies in Systems, Decision and Control, 2016, , 225-237.	0.8	0
72	Solvability condition for synchronization of discrete-time multi-agent systems and design. , 2017, , .		0

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73	Passivity based state synchronization of homogeneous discrete-time multi-agent systems via static protocol in presence of input delay. , 2018, , .		0
74	Leaderless state synchronization of homogeneous multi-agent systems via a universal adaptive nonlinear dynamic protocol. , 2018, , .		0
75	Passivity based state synchronization of multi-agent systems via static or adaptive nonlinear dynamic protocols. , 2018, , .		0
76	Passivity based state synchronization of homogeneous multi-agent systems via static protocol in presence of input saturation. , 2018, , .		0
77	Regulated state synchronization of homogeneous multiagent systems with partialâ€state coupling via lowâ€gain adaptive protocol. International Journal of Robust and Nonlinear Control, 2019, 29, 3518-3528.	2.1	0
78	H2 almost output synchronization of heterogeneous continuous-time multi-agent systems with passive agents and partial state coupling via static protocol. , 2019, , .		0
79	Distributed Cooperative Voltage Control of Multiterminal High-Voltage DC Systems. IEEE Systems Journal, 2022, 16, 176-184.	2.9	0
80	Event-Triggering Cooperative Output Regulation of Singular Linear Multi-Agent Systems with Zeno-Free Triggering. , 2020, , .		0
81	Distributed adaptive protocols design based load frequency control for multi-area interconnected power system. , 2021, , .		0
82	Stability of Genetic Regulatory Networks with Multiple Delays via a New Functional. Lecture Notes in Computer Science, 2010, , 512-519.	1.0	0
83	Fault Diagnosis for Smart Grid by a Hybrid Method of Rough Sets and Neural Network. Communications in Computer and Information Science, 2011, , 577-582.	0.4	0
84	Stability Criteria for RNNs Based on Secondary Delay Partitioning. Studies in Systems, Decision and Control, 2016, , 205-224.	0.8	0
85	Preliminaries on Dynamical Systems and Stability Theory. Studies in Systems, Decision and Control, 2016, , 37-90.	0.8	0
86	Synchronization for Homogeneous and Heterogeneous Discrete-time Multi-agent Systems: A Scale-free Protocol Design. , 2020, , .		0
87	Scale-free State Synchronization of Discrete-time Multi-agent Systems in Presence of Nonuniform Communication Delays. , 2021, , .		0
88	Scale-free Collaborative Protocol Design for State Synchronization of Multi-agent Systems in Presence of Unknown Nonuniform and Arbitrarily Large Communication Delays. European Journal of Control, 2022, , 100660.	1.6	0