Qing Hui

List of Publications by Year
in descending order

101 papers	1,324 citations	567281 15 h-index	501196 28 g-index
101 all docs	101 docs citations	101 times ranked	953 citing authors

#	Article	IF	Citations
1	Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. IEEE Transactions on Automatic Control, 2008, 53, 1887-1900.	5.7	274
2	Modeling and Observer-Based Vibration Control of a Flexible Spacecraft With External Disturbances. IEEE Transactions on Industrial Electronics, 2019, 66, 8648-8658.	7.9	161
3	Semistability, Finite-Time Stability, Differential Inclusions, and Discontinuous Dynamical Systems Having a Continuum of Equilibria. IEEE Transactions on Automatic Control, 2009, 54, 2465-2470.	5.7	122
4	Boundary Control for an Axially Moving System With Input Restriction Based on Disturbance Observers. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2242-2253.	9.3	111
5	Finite-Time Rendezvous Algorithms for Mobile Autonomous Agents. IEEE Transactions on Automatic Control, 2011, 56, 207-211.	5.7	93
6	Fixed-time stabilization of fuzzy neutral-type inertial neural networks with time-varying delay. Fuzzy Sets and Systems, 2021, 411, 48-67.	2.7	37
7	Modeling the Vulnerability of Feedback-Control Based Internet Services to Low-Rate DoS Attacks. IEEE Transactions on Information Forensics and Security, 2014, 9, 339-353.	6.9	34
8	Hybrid consensus protocols: an impulsive dynamical system approach. International Journal of Control, 2010, 83, 1107-1116.	1.9	32
9	On robust control algorithms for nonlinear network consensus protocols. International Journal of Robust and Nonlinear Control, 2010, 20, 269-284.	3.7	25
10	Energy Equipartition Stabilization and Cascading Resilience Optimization for Geospatially Distributed Cyber-Physical Network Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 25-43.	9.3	25
11	Optimal Balanced Coordinated Network Resource Allocation Using Swarm Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 770-787.	9.3	24
12	Sliding mode control-based fixed-time stabilization and synchronization of inertial neural networks with time-varying delays. Neural Computing and Applications, 2021, 33, 11555-11572.	5.6	19
13	Power System Stabilization Using Energy-Dissipating Hybrid Control. IEEE Transactions on Power Systems, 2019, 34, 215-224.	6.5	18
14	Distributed semistable LQR control for discrete-time dynamically coupled systems. Journal of the Franklin Institute, 2012, 349, 74-92.	3.4	16
15	Multiagent Coordination Optimization: A control-theoretic perspective of swarm intelligence algorithms. , 2013, , .		15
16	Human Brain Networks: Spiking Neuron Models, Multistability, Synchronization, Thermodynamics, Maximum Entropy Production, and Anesthetic Cascade Mechanisms. Entropy, 2014, 16, 3939-4003.	2.2	15
17	Energy-Event-Triggered Hybrid Supervisory Control for Cyber-Physical Network Systems. IEEE Transactions on Automatic Control, 2015, 60, 3083-3088.	5.7	14
18	Many objective cooperative bat searching algorithm. Applied Soft Computing Journal, 2019, 77, 412-437.	7.2	13

#	ARTICLE	IF	CITATIONS
19	Semistability for time-varying discontinuous dynamical systems with application to agreement problems in switching networks. , 2008, , .		12
20	Quantised near-consensus via quantised communication links. International Journal of Control, 2011, 84, 931-946.	1.9	12
21	Thermodynamics-Based Control of Network Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	12
22	Parallel Multiagent Coordination Optimization Algorithm: Implementation, Evaluation, and Applications. IEEE Transactions on Automation Science and Engineering, 2017, 14, 984-995.	5.2	12
23	Uniform semistability for time-varying dynamical systems and network consensus with time-dependent communication links. , 2009, , .		11
24	Kalman filter with diffusion strategies for detecting power grid false data injection attacks. , 2017, , .		11
25	$$(mu ,u)-$$Pseudo Almost Automorphic Solutions of Neutral Type Clifford-Valued High-Order Hopfield Neural Networks with D Operator. Neural Processing Letters, 2021, 53, 799-828.	3.2	11
26	Automated Contaminant Source Localization in Spatio-Temporal Fields: A Response Surface and Experimental Design Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 569-583.	9.3	10
27	Optimal Semistable Control in Ad Hoc Network Systems: A Sequential Two-Stage Approach. IEEE Transactions on Automatic Control, 2013, 58, 779-784.	5.7	8
28	Semistability of switched linear systems. , 2009, , .		7
29	Semistability theory for spatially distributed systems. Systems and Control Letters, 2013, 62, 862-870.	2.3	7
30	Binary Multiagent Coordination Optimization with application to formation control design. , 2013, , .		7
31	Stabilization of multimachine power systems via hybrid control. , 2009, , .		6
32	A semistabilizability/semidetectability approach to semistable H<inf>2</inf> and H<inf>âˆž</inf> control problems. , 2011, , .		6
33	Topological heterogeneity and optimality analysis for multiagent formation. , 2012, , .		6
34	Semistability of Nonlinear Systems Having a Connected Set of Equilibria and Time-Delays. IEEE Transactions on Automatic Control, 2012, 57, 2615-2620.	5.7	6
35	A new hybrid swarm optimization algorithm for power system vulnerability analysis and sensor network deployment. , 2013, , .		6
36	Formation Control Protocols for Nonlinear Dynamical Systems Via Hybrid Stabilization of Sets. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	6

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37	Dissipativity theory for discontinuous dynamical systems: Basic input, state, and output properties, and finite-time stability of feedback interconnections. , 2009, , .		5
38	Optimal linear iterations for distributed agreement. , 2010, , .		5
39	Hybrid Multiagent Swarm Optimization: Algorithms, evaluation, and application. , 2012, , .		5
40	Convergence analysis and parallel computing implementation for the multiagent coordination optimization algorithm with applications. , 2013, , .		5
41	Semistability theory for spatially distributed systems. , 2009, , .		4
42	Optimal semistable control for continuous-time coupled systems. , 2010, , .		4
43	Semistability-based robust and optimal control design for network systems. , 2012, , .		4
44	Optimal balanced coordinated network resource allocation using swarm optimization. , 2012, , .		4
45	Optimal defense synthesis for jamming attacks in cognitive radio networks via swarm optimization. , 2012, , .		4
46	Flocking and rendezvous control protocols for nonlinear dynamical systems via hybrid stabilization of sets. , 2013, , .		4
47	Modified Hybrid Multiagent Swarm Optimization Algorithms for Mixed-Binary Nonlinear Programming. , 2013, , .		4
48	Further Results on Paracontracting Matrices and Correction to â€œOptimal Semistable Control in<i>Ad Hoc</i>Network Systems: A Sequential Two-Stage Approachâ€. IEEE Transactions on Automatic Control, 2015, 60, 3305-3309.	5.7	4
49	Global convergence analysis of swarm optimization using paracontraction and semistability theory. , 2016, , .		4
50	Bio-inspired consensus under suggested convergence direction. , 2017, , .		4
51	Finite-time rendezvous algorithms for mobile autonomous agents. , 2009, , .		3
52	On generalized low-rate denial-of-quality attack against Internet services. , 2009, , .		3
53	Quantized near-consensus via quantized communication links. , 2010, , .		3
54	A note to robustness analysis of the hybrid consensus protocols. , 2011, , .		3

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55	Control of synchronization for multi-agent systems in acceleration motion with additional analysis of formation control. , 2011, , .		3
56	Optimizing weighted graph topology for robust network information dissemination. , 2012, , .		3
57	Neuromorphic-computing-based feedback control: A cognitive supervisory control framework. , 2016, , .		3
58	Epsilon-Constrained CCPSO with Different Improvement Detection Techniques for Large-Scale Constrained Optimization. , 2016, , .		3
59	Cooperative bat searching algorithm: A combined perspective from multiagent coordination and swarm intelligence. , 2017, , .		3
60	SoundFence: Securing Ultrasonic Sensors in Vehicles Using Physical-Layer Defense. , 2021, , .		3
61	Ergodicity of flocking systems for infinite-dimensional multi-agent coordination. , 2010, , .		2
62	LQR-type distributed linear iterative averaging strategies. , 2010, , .		2
63	Optimal control of bio-attack induced infectious disease dynamics: The case of anthrax. , 2010, , .		2
64	Lyapunov-based semistability analysis for discrete-time switched network systems. , 2011, , .		2
65	A semistability-based design framework for optimal consensus seeking of multiagent systems in a noisy environment. , 2012, , .		2
66	Semistabilization, feedback dissipativation, system thermodynamics, and limits of performance in feedback control. , 2013, , .		2
67	A numerical gradient based technique and directed neighborhood structure for Constrained Particle Swarm Optimization. , 2013, , .		2
68	Comparison of differential grouping and random grouping methods on sCCPSO for large-scale constrained optimization. , 2016, , .		2
69	The convergence analysis of bat-inspired consensus protocols with nonlinear dynamics. , 2017, , .		2
70	Distributed fault diagnosis of networked dynamical systems with time-varying topology. Journal of the Franklin Institute, 2019, 356, 5754-5780.	3.4	2
71	A Coupled Spring Forced Bat Searching Algorithm: Design, Analysis and Evaluation. , 2020, , .		2
72	On semistability of nonlinear switched systems. , 2009, , .		1

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73	Stability and convergence of nonlinear systems having a continuum of equilibria and time-varying delays. , 2010, , .		1
74	Can thermodynamics be used to design control systems?. , 2011, , .		1
75	Thermodynamics-based network systems control by thermal analogy. , 2012, , .		1
76	New multiagent coordination optimization algorithms for mixed-binary nonlinear programming with control applications. , 2014, , .		1
77	Deep Learning Based Formation Control for the Multi-Agent Coordination. , 2019, , .		1
78	The Formation Control of Mobile Autonomous Multi-Agent Systems Using Deep Reinforcement Learning. , 2019, , .		1
79	Global dissipativity of fuzzy genetic regulatory networks with mixed delays. International Journal of Systems Science, 0, , 1-20.	5.5	1
80	Hybrid consensus protocols: An impulsive dynamical system approach. , 2009, , .		0
81	On semistability of nonlinear switched systems. , 2009, , .		0
82	Control of low-rate denial-of-service attacks on web servers and TCP flows. , 2010, , .		0
83	Thermo-inspired modeling and analysis of network information flows. , 2011, , .		0
84	Semistability of retarded functional differential equations. , 2011, , .		0
85	Synchronization of biological neural network systems with stochastic perturbations and time delays. , 2012, , .		0
86	Circular formation control protocols for dynamic unicycles via hybrid stabilization of sets. , 2013, , .		0
87	Multistability analysis of discontinuous dynamical systems via finite trajectory length. , 2014, , .		0
88	Partial Cluster Stabilization and Partial Cascade Stabilization of Physical Networks**This work was supported by the Defense Threat Reduction Agency, Basic Research Award #HDTRA1-10-1-0090 and Fundamental Research Award #HDTRA1-13-1-0048.. IFAC-PapersOnLine, 2015, 48, 230-235.	0.9	0
89	Coordinated Control and Estimation of Multiagent Systems with Engineering Applications. Mathematical Problems in Engineering, 2015, 2015, 1-2.	1.1	0
90	Control of Networked Systems with Engineering Applications. Mathematical Problems in Engineering, 2016, 2016, 1-2.	1.1	0

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91	Randomized target search and its convergence in dynamic multi-layer networks. , 2016, , .		0
92	A hybrid ACO algorithm based on Bayesian factorizations and reinforcement learning for continuous optimization. , 2016, , .		0
93	Real-time distributed decomposition for large-scale distributed fault diagnosis over dynamic graphs. , 2016, , .		0
94	Strong semistabilizability and partial semistabilizability with applications to semistabilization analysis of multi-layer networks. , 2016, , .		0
95	Modeling stochastic noise in neural networks: A survey. , 2017, , .		0
96	Distributed fault diagnosis with shared-basis and B-splines-based matched learning. , 2017, , .		0
97	A Spiking Neural Dynamical Drift-Diffusion Model on Collective Decision Making with Self-Organized Criticality. , 2018, , .		0
98	The Bat-Inspired Consensus Protocols with Differential Privacy. , 2018, , .		0
99	B-Splines-Based Fuzzy C-Means to Maximizing Overlap Areas for Interconnected Power Systems. , 2019, , .		0
100	Toward Building a Human-Cognition-in-the-Loop Supervisory Control System for Humanized Decison-Making. , 2019, , .		0
101	Human-in-the-Loop Approach in Thermostatically Controlled Loads. , 2019, , .		0