# Qing Hui

List of Publications by Year
in descending order



| 101 | 1,324 | 567281 15 | 501196 28 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 101 | 101 | 101 | 953 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | $$(mu ,u )-$$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 |
| 3 | 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 |
| 4 | SoundFence: Securing Ultrasonic Sensors in Vehicles Using Physical-Layer Defense. , 2021, , . | | 3 |
| 5 | A Coupled Spring Forced Bat Searching Algorithm: Design, Analysis and Evaluation. , 2020, , . | | 2 |
| 6 | 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 |
| 7 | Power System Stabilization Using Energy-Dissipating Hybrid Control. IEEE Transactions on Power Systems, 2019, 34, 215-224. | 6.5 | 18 |
| 8 | Deep Learning Based Formation Control for the Multi-Agent Coordination. , 2019, , . | | 1 |
| 9 | The Formation Control of Mobile Autonomous Multi-Agent Systems Using Deep Reinforcement Learning. , 2019, , . | | 1 |
| 10 | B-Splines-Based Fuzzy C-Means to Maximizing Overlap Areas for Interconnected Power Systems. , 2019, , . | | 0 |
| 11 | Many objective cooperative bat searching algorithm. Applied Soft Computing Journal, 2019, 77, 412-437. | 7.2 | 13 |
| 12 | Distributed fault diagnosis of networked dynamical systems with time-varying topology. Journal of the Franklin Institute, 2019, 356, 5754-5780. | 3.4 | 2 |
| 13 | Toward Building a Human-Cognition-in-the-Loop Supervisory Control System for Humanized Decison-Making. , 2019, , . | | 0 |
| 14 | 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 |
| 15 | Human-in-the-Loop Approach in Thermostatically Controlled Loads. , 2019, , . | | 0 |
| 16 | A Spiking Neural Dynamical Drift-Diffusion Model on Collective Decision Making with Self-Organized Criticality. , 2018, , . | | 0 |
| 17 | The Bat-Inspired Consensus Protocols with Differential Privacy. , 2018, , . | | 0 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Parallel Multiagent Coordination Optimization Algorithm: Implementation, Evaluation, and Applications. IEEE Transactions on Automation Science and Engineering, 2017, 14, 984-995. | 5.2 | 12 |
| 20 | Kalman filter with diffusion strategies for detecting power grid false data injection attacks. , 2017, , . | | 11 |
| 21 | Modeling stochastic noise in neural networks: A survey. , 2017, , . | | 0 |
| 22 | Bio-inspired consensus under suggested convergence direction. , 2017, , . | | 4 |
| 23 | Cooperative bat searching algorithm: A combined perspective from multiagent coordination and swarm intelligence. , 2017, , . | | 3 |
| 24 | The convergence analysis of bat-inspired consensus protocols with nonlinear dynamics. , 2017, , . | | 2 |
| 25 | Distributed fault diagnosis with shared-basis and B-splines-based matched learning. , 2017, , . | | 0 |
| 26 | Control of Networked Systems with Engineering Applications. Mathematical Problems in Engineering, 2016, 2016, 1-2. | 1.1 | 0 |
| 27 | Global convergence analysis of swarm optimization using paracontraction and semistability theory. , 2016, , . | | 4 |
| 28 | Randomized target search and its convergence in dynamic multi-layer networks. , 2016, , . | | 0 |
| 29 | Neuromorphic-computing-based feedback control: A cognitive supervisory control framework. , 2016, , . | | 3 |
| 30 | Comparison of differential grouping and random grouping methods on sCCPSO for large-scale constrained optimization. , 2016, , . | | 2 |
| 31 | A hybrid ACO algorithm based on Bayesian factorizations and reinforcement learning for continuous optimization. , 2016, , . | | 0 |
| 32 | Real-time distributed decomposition for large-scale distributed fault diagnosis over dynamic graphs. , 2016, , . | | 0 |
| 33 | Strong semistabilizability and partial semistabilizability with applications to semistabilization analysis of multi-layer networks. , 2016, , . | | 0 |
| 34 | Epsilon-Constrained CCPSO with Different Improvement Detection Techniques for Large-Scale Constrained Optimization. , 2016, , . | | 3 |
| 35 | 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 |
| 36 | Coordinated Control and Estimation of Multiagent Systems with Engineering Applications. Mathematical Problems in Engineering, 2015, 2015, 1-2. | 1.1 | 0 |

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| 37 | Energy-Event-Triggered Hybrid Supervisory Control for Cyber-Physical Network Systems. IEEE Transactions on Automatic Control, 2015, 60, 3083-3088. | 5.7 | 14 |
| 38 | Further Results on Paracontracting Matrices and Correction to â€œOptimal Semistable Control inAd HocNetwork Systems: A Sequential Two-Stage Approachâ€• IEEE Transactions on Automatic Control, 2015, 60, 3305-3309. | 5.7 | 4 |
| 39 | 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 |
| 40 | Optimal Balanced Coordinated Network Resource Allocation Using Swarm Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 770-787. | 9.3 | 24 |
| 41 | Human Brain Networks: Spiking Neuron Models, Multistability, Synchronization, Thermodynamics, Maximum Entropy Production, and Anesthetic Cascade Mechanisms. Entropy, 2014, 16, 3939-4003. | 2.2 | 15 |
| 42 | Multistability analysis of discontinuous dynamical systems via finite trajectory length. , 2014, , . | | 0 |
| 43 | New multiagent coordination optimization algorithms for mixed-binary nonlinear programming with control applications. , 2014, , . | | 1 |
| 44 | 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 |
| 45 | 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 |
| 46 | Semistability theory for spatially distributed systems. Systems and Control Letters, 2013, 62, 862-870. | 2.3 | 7 |
| 47 | Multiagent Coordination Optimization: A control-theoretic perspective of swarm intelligence algorithms. , 2013, , . | | 15 |
| 48 | Binary Multiagent Coordination Optimization with application to formation control design. , 2013, , . | | 7 |
| 49 | Circular formation control protocols for dynamic unicycles via hybrid stabilization of sets. , 2013, , . | | 0 |
| 50 | 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 |
| 51 | A new hybrid swarm optimization algorithm for power system vulnerability analysis and sensor network deployment. , 2013, , . | | 6 |
| 52 | Thermodynamics-Based Control of Network Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, . | 1.6 | 12 |
| 53 | Semistabilization, feedback dissipativation, system thermodynamics, and limits of performance in feedback control. , 2013, , . | | 2 |
| 54 | Convergence analysis and parallel computing implementation for the multiagent coordination optimization algorithm with applications. , 2013, , . | | 5 |

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| 55 | Flocking and rendezvous control protocols for nonlinear dynamical systems via hybrid stabilization of sets. , 2013, , . | | 4 |
| 56 | A numerical gradient based technique and directed neighborhood structure for Constrained Particle Swarm Optimization. , 2013, , . | | 2 |
| 57 | Modified Hybrid Multiagent Swarm Optimization Algorithms for Mixed-Binary Nonlinear Programming. , 2013, , . | | 4 |
| 58 | Optimizing weighted graph topology for robust network information dissemination. , 2012, , . | | 3 |
| 59 | Semistability-based robust and optimal control design for network systems. , 2012, , . | | 4 |
| 60 | Optimal balanced coordinated network resource allocation using swarm optimization. , 2012, , . | | 4 |
| 61 | A semistability-based design framework for optimal consensus seeking of multiagent systems in a noisy environment. , 2012, , . | | 2 |
| 62 | Synchronization of biological neural network systems with stochastic perturbations and time delays. , 2012, , . | | 0 |
| 63 | Topological heterogeneity and optimality analysis for multiagent formation. , 2012, , . | | 6 |
| 64 | Thermodynamics-based network systems control by thermal analogy. , 2012, , . | | 1 |
| 65 | Optimal defense synthesis for jamming attacks in cognitive radio networks via swarm optimization. , 2012, , . | | 4 |
| 66 | 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 |
| 67 | Hybrid Multiagent Swarm Optimization: Algorithms, evaluation, and application. , 2012, , . | | 5 |
| 68 | Distributed semistable LQR control for discrete-time dynamically coupled systems. Journal of the Franklin Institute, 2012, 349, 74-92. | 3.4 | 16 |
| 69 | Finite-Time Rendezvous Algorithms for Mobile Autonomous Agents. IEEE Transactions on Automatic Control, 2011, 56, 207-211. | 5.7 | 93 |
| 70 | A semistabilizability/semidetectability approach to semistable H<inf>2</inf> and H<inf>â^ž</inf> control problems. , 2011, , . | | 6 |
| 71 | Quantised near-consensus via quantised communication links. International Journal of Control, 2011, 84, 931-946. | 1.9 | 12 |
| 72 | Thermo-inspired modeling and analysis of network information flows. , 2011, , . | | 0 |

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| 73 | Lyapunov-based semistability analysis for discrete-time switched network systems. , 2011, , . | | 2 |
| 74 | A note to robustness analysis of the hybrid consensus protocols. , 2011, , . | | 3 |
| 75 | Can thermodynamics be used to design control systems?. , 2011, , . | | 1 |
| 76 | Semistability of retarded functional differential equations. , 2011, , . | | 0 |
| 77 | Control of synchronization for multi-agent systems in acceleration motion with additional analysis of formation control. , 2011, , . | | 3 |
| 78 | On robust control algorithms for nonlinear network consensus protocols. International Journal of Robust and Nonlinear Control, 2010, 20, 269-284. | 3.7 | 25 |
| 79 | Quantized near-consensus via quantized communication links. , 2010, , . | | 3 |
| 80 | Hybrid consensus protocols: an impulsive dynamical system approach. International Journal of Control, 2010, 83, 1107-1116. | 1.9 | 32 |
| 81 | Control of low-rate denial-of-service attacks on web servers and TCP flows. , 2010, , . | | 0 |
| 82 | Optimal semistable control for continuous-time coupled systems. , 2010, , . | | 4 |
| 83 | Ergodicity of flocking systems for infinite-dimensional multi-agent coordination. , 2010, , . | | 2 |
| 84 | Optimal linear iterations for distributed agreement. , 2010, , . | | 5 |
| 85 | LQR-type distributed linear iterative averaging strategies. , 2010, , . | | 2 |
| 86 | Optimal control of bio-attack induced infectious disease dynamics: The case of anthrax. , 2010, , . | | 2 |
| 87 | Stability and convergence of nonlinear systems having a continuum of equilibria and time-varying delays. , 2010, , . | | 1 |
| 88 | Finite-time rendezvous algorithms for mobile autonomous agents. , 2009, , . | | 3 |
| 89 | Stabilization of multimachine power systems via hybrid control. , 2009, , . | | 6 |
| 90 | Semistability of switched linear systems. , 2009, , . | | 7 |

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| 91 | Semistability theory for spatially distributed systems. , 2009, , . | | 4 |
| 92 | Uniform semistability for time-varying dynamical systems and network consensus with time-dependent communication links. , 2009, , . | | 11 |
| 93 | Dissipativity theory for discontinuous dynamical systems: Basic input, state, and output properties, and finite-time stability of feedback interconnections. , 2009, , . | | 5 |
| 94 | Hybrid consensus protocols: An impulsive dynamical system approach. , 2009, , . | | 0 |
| 95 | On semistability of nonlinear switched systems. , 2009, , . | | 1 |
| 96 | On generalized low-rate denial-of-quality attack against Internet services. , 2009, , . | | 3 |
| 97 | On semistability of nonlinear switched systems. , 2009, , . | | 0 |
| 98 | 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 |
| 99 | Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. IEEE Transactions on Automatic Control, 2008, 53, 1887-1900. | 5.7 | 274 |
| 100 | Semistability for time-varying discontinuous dynamical systems with application to agreement problems in switching networks. , 2008, , . | | 12 |
| 101 | Global dissipativity of fuzzy genetic regulatory networks with mixed delays. International Journal of Systems Science, 0, , 1-20. | 5.5 | 1 |