Zhiqiang Zuo

List of Publications by Year in Descending Order

116 papers	1,696 citations	22 h-index	38 g-index
172 ext. papers	2,188 ext. citations	3.9 avg, IF	5.43 L-index

#	Paper	IF	Citations
116	Event-Triggered Control for Networked Switched Systems With Quantization. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-9	7.3	0
115	Differential privacy for bipartite consensus over signed digraph. *Neurocomputing*, **2022**, 468, 11-21	5.4	1
114	Active Synchronization for Double-Integrator Network Systems Without Velocity Information. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2022**, 1-12	3.9	0
113	Event-triggered bipartite consensus for multi-agent systems subject to multiplicative and additive noises. *Applied Mathematics and Computation*, **2022**, 429, 127235	2.7	0
112	Active Control Strategy for Disturbed Switched Systems Under Asynchronous DoS Attacks **2022**, 6, 2701-2706		0
111	Formation Control of Wheeled Mobile Robots With Multiple Virtual Leaders Under Communication Failures. *IEEE Transactions on Control Systems Technology*, **2022**, 1-11	4.8	
110	Composite Nonlinear Path-Following Control for Unmanned Ground Vehicles With Anti-Windup ESO. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-12	7.3	0
109	Modeling and Stability Analysis of DC Microgrid with Constant Power Loads **2021**,		1
108	Model predictive longitudinal control for autonomous electric vehicles with tracking differentiator. *International Journal of Systems Science*, **2021**, 52, 2564-2579	2.3	2
107	Low frequency Lagrange stabilization for pendulum-like systems. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 4856-4868	3.6	0
106	Event-triggered model predictive control for multi-vehicle systems with collision avoidance and obstacle avoidance. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 5476-5494	3.6	2
105	Composite control for trajectory tracking of wheeled mobile robots with NLESO and NTSMC. *IET Control Theory and Applications*, **2021**, 15, 1686-1694	2.5	
104	Stabilization of networked switched affine systems with event-triggered strategy. *Transactions of the Institute of Measurement and Control*, **2021**, 43, 3377-3387	1.8	
103	A lateral control strategy for unmanned ground vehicles with model predictive control and active disturbance rejection control. *Transactions of the Institute of Measurement and Control*, **2021**, 43, 3473-3482	1.8	1
102	Fixed-time ESO based fixed-time integral terminal sliding mode controller design for a missile. *ISA Transactions*, **2021**,	5.5	1
101	Bipartite consensus for a network of wave PDEs over a signed directed graph. *Automatica*, **2021**, 129, 109640	5.7	1
100	Active Event-Triggered Control for Nonlinear Networked Control Systems With Communication Constraints. *IEEE Transactions on Cybernetics*, **2021**, 51, 2409-2418	10.2	7

99	Stabilization of non-smooth variable order switched nonlinear systems. *ISA Transactions*, **2021**, 110, 160-171	5.5	1
98	Bipartite consensus for multi-agent systems with noises over Markovian switching topologies. *Neurocomputing*, **2021**, 419, 295-305	5.4	3
97	Event-triggered dynamic anti-windup augmentation for saturated systems. *International Journal of Systems Science*, **2021**, 52, 196-216	2.3	1
96	A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 3429-3439	7.3	6
95	Adaptive control for discontinuous variable-order fractional systems with disturbances. *Nonlinear Dynamics*, **2021**, 103, 1693-1708	5	1
94	Reference input and hysteresis quantizer based triggered control for networked control systems over limited channels. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 2614-2632	3.6	1
93	Adaptive super-twisting trajectory tracking control for an unmanned aerial vehicle under gust winds. *Aerospace Science and Technology*, **2021**, 115, 106833	4.9	4
92	MPC-Based Cooperative Control Strategy of Path Planning and Trajectory Tracking for Intelligent Vehicles. *IEEE Transactions on Intelligent Vehicles*, **2021**, 6, 513-522	5	10
91	Stochastic bipartite consensus with measurement noises and antagonistic information. *Journal of the Franklin Institute*, **2021**, 358, 7761-7785	4	1
90	Self-triggered MPC for nonholonomic systems with multiple constraints by adaptive transmission intervals. *Automatica*, **2021**, 133, 109870	5.7	1
89	Resilient Consensus of Multiagent Systems Against Denial-of-Service Attacks. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-12	7.3	5
88	An Integrated Model-Based and Data-Driven Gap Metric Method for Fault Detection and Isolation. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	3
87	Fixed-Time Formation Control for Wheeled Mobile Robots With Prescribed Performance. *IEEE Transactions on Control Systems Technology*, **2021**, 1-8	4.8	4
86	Trajectory tracking for a wheeled mobile robot with an omnidirectional wheel on uneven ground. *IET Control Theory and Applications*, **2020**, 14, 921-929	2.5	10
85	Composite nonlinear feedback with dynamic event-triggered mechanism for control systems in the presence of saturation nonlinearity. *Asian Journal of Control*, **2020**, 23, 1503	1.7	3
84	Output-based dynamic event-triggering control for sensor saturated systems with external disturbance. *Applied Mathematics and Computation*, **2020**, 374, 125043	2.7	7
83	Fixed-Time Active Disturbance Rejection Control and Its Application to Wheeled Mobile Robots. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-11	7.3	14
82	Bipartite consensus for a network of wave equations with time-varying disturbances. *Systems and Control Letters*, **2020**, 136, 104604	2.4	13

81	Double-Integrator Dynamics for Multiagent Systems With Antagonistic Reciprocity. *IEEE Transactions on Cybernetics*, **2020**, 50, 4110-4120	10.2	19
80	Event-triggered control for switched systems with both continuous-time and discrete-time subsystems. *International Journal of Systems Science*, **2020**, 51, 180-190	2.3	3
79	Containment control for distributed networks subject to multiplicative and additive noises with stochastic approximation-type protocols. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 665-684	3.6	7
78	An improved event-triggered control for systems subject to asymmetric actuator saturation. *Journal of the Franklin Institute*, **2020**, 357, 13620-13636	4	3
77	Reachable set estimation and synthesis of discrete-time switched systems. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 8060-8073	3.6	1
76	An experimental and DFT study on novel dyes incorporated with natural dyes on titanium dioxide (TiO2) towards solar cell application. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	17
75	Mean Square Bipartite Consensus for Multiagent Systems With Antagonistic Information and Time-Varying Topologies. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-11	7.3	0
74	Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 3136-3144	7.3	25
73	Coordination for second-order multi-agent systems with velocity and communication constraints. *Neurocomputing*, **2020**, 375, 51-61	5.4	5
72	Integral Sliding Mode Control Using a Disturbance Observer for Vehicle Platoons. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 6639-6648	8.9	22
71	Event-triggered composite nonlinear control for saturated systems with measurement feedback. *Transactions of the Institute of Measurement and Control*, **2019**, 41, 3943-3951	1.8	4
70	Trajectory Planning and Safety Assessment of Autonomous Vehicles Based on Motion Prediction and Model Predictive Control. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 8546-8556	6.8	22
69	Autonomous Vehicles Path Planning With Enhanced Ant Colony optimization **2019**,		2
68	Synchronization of Lurie Systems Under Limited Network Transmission Capacity With Quantization and One-Step Packet Dropout: An Active Method. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 1-9	7.3	6
67	Lane-Associated MPC Path Planning for Autonomous Vehicles **2019**,		3
66	Event-triggered control for neutrally stable linear systems subject to output saturation **2019**,		1
65	Fixed-Time Quasi-Containment Control with Antagonistic Nodes **2019**,		2
64	Finite-time consensus of neutrally stable multi-agent systems in the presence of input saturation. *Journal of the Franklin Institute*, **2019**, 356, 894-907	4	17

63	Layered event-triggered control for group consensus with both competition and cooperation interconnections. *Neurocomputing*, **2018**, 275, 1964-1972	5.4	19
62	Event-triggered control for switched systems in the presence of actuator saturation. *International Journal of Systems Science*, **2018**, 49, 1478-1490	2.3	25
61	Event-triggered and self-triggered control for linear systems with actuator saturation. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 1281-1288	1.8	14
60	Quantizer-Based Triggered Control for Chaotic Synchronization With Information Constraints. *IEEE Transactions on Cybernetics*, **2018**, 48, 2500-2508	10.2	11
59	Dynamic Output Feedback Control for Systems Subject to Actuator Saturation via Event-Triggered Scheme. *Asian Journal of Control*, **2018**, 20, 207-215	1.7	28
58	Attack-State Estimation for Cyber-Physical Systems: A Graph Theory Perspective **2018**,		1
57	Fast Nonlinear Model Predictive Control Parallel Design Using QPSO and Its Applications on Trajectory Tracking of Autonomous Vehicles **2018**,		3
56	Event-triggered state-dependent switching rule design for switched linear systems. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 6239-6253	3.6	10
55	Stabilization of Wave Equation with Boundary Saturated Control **2018**,		1
54	Multiple Performance Analysis for Nonlinear Networked Control Systems with Limited Channels **2018**,		4
53	Dynamic event-triggered and self-triggered output feedback control of networked switched linear systems. *Neurocomputing*, **2018**, 314, 39-47	5.4	42
52	Stabilization of linear systems with direct feedthrough term in the presence of output saturation. *Automatica*, **2017**, 77, 254-258	5.7	10
51	Dynamic event-triggered and self-triggered control for saturated systems with anti-windup compensation. *Journal of the Franklin Institute*, **2017**, 354, 7624-7642	4	25
50	Synchronization of Lurie systems with quantized and triggered control under limited transmission capacity **2017**,		6
49	Parameter Estimations of Heston Model Based on Consistent Extended Kalman Filter. *IFAC-PapersOnLine*, **2017**, 50, 14100-14105	0.7	1
48	Cooperative control in the presence of antagonistic reciprocity **2017**,		1
47	Finite-time stability of discrete-time switched singular systems with all unstable modes. *International Journal of System Control and Information Processing*, **2017**, 2, 142	0	
46	Containment control of multi-agent systems with measured noise based on the Kalman-Bucy filtering theory **2017**,		2

45	Finite-time stabilization of switched nonlinear systems with partial unstable modes. *Applied Mathematics and Computation*, **2016**, 291, 172-181	2.7	17
44	Anti-windup compensator synthesis for saturated systems via event-triggered scheme **2016**,		4
43	Disturbance Observer-Based Integral Sliding-Mode Control for Systems With Mismatched Disturbances. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 7040-7048	8.9	194
42	Event triggered control for Markovian jump systems with partially unknown transition probabilities and actuator saturation. *Journal of the Franklin Institute*, **2016**, 353, 1848-1861	4	42
41	Distributed consensus for double integrator dynamical systems without velocity information **2016**,		2
40	L2-gain fault tolerant control of singular Lipschitz systems in the presence of actuator saturation. *International Journal of Robust and Nonlinear Control*, **2015**, 25, 1751-1766	3.6	12
39	Synthesis of n-port resistive networks containing 2n terminals. *International Journal of Circuit Theory and Applications*, **2015**, 43, 427-437	2	12
38	Average dwell time approach to finite-time stabilization of switched singular linear systems. *Journal of the Franklin Institute*, **2015**, 352, 2920-2933	4	25
37	Finite-time stochastic stabilization for uncertain Markov jump systems subject to input constraint. *Transactions of the Institute of Measurement and Control*, **2014**, 36, 283-288	1.8	8
36	Finite-time stability analysis of impulsive discrete-time switched systems with nonlinear perturbation. *International Journal of Control*, **2014**, 1-7	1.5	3
35	Finite-time boundedness of switched delay systems: the reciprocally convex approach. *IET Control Theory and Applications*, **2014**, 8, 1575-1580	2.5	10
34	A non-ellipsoidal reachable set estimation for uncertain neural networks with time-varying delay. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 1097-1106	3.7	37
33	Distributed consensus of linear multi-agent systems with fault tolerant control protocols **2014**,		1
32	Adaptive Fault-Tolerant Tracking Control for Linear and Lipschitz Nonlinear Multi-Agent Systems. *IEEE Transactions on Industrial Electronics*, **2014**, 1-1	8.9	80
31	Networked Dynamical Systems: Analysis and Synthesis. *Discrete Dynamics in Nature and Society*, **2014**, 2014, 1-2	1.1	1
30	Finite-time stabilization of linear systems with actuator fault and quantization **2014**,		1
29	A Novel Design Method for Resolver-to-Digital Conversion. *IEEE Transactions on Industrial Electronics*, **2014**, 1-1	8.9	41
28	A new method of reachable set estimation for time delay systems with polytopic uncertainties. *Applied Mathematics and Computation*, **2013**, 221, 639-647	2.7	11

27	A note on reachable set bounding for delayed systems with polytopic uncertainties. *Journal of the Franklin Institute*, **2013**, 350, 1827-1835	4	36
26	On finite-time stability for nonlinear impulsive switched systems. *Nonlinear Analysis: Real World Applications*, **2013**, 14, 807-814	2.1	43
25	Stochastic Stabilization of Markovian Jump Systems with Partial Unknown Transition Probabilities and Actuator Saturation. *Circuits, Systems, and Signal Processing*, **2012**, 31, 371-383	2.2	21
24	Finite-Time Stability Analysis of Impulsive Switched Discrete-Time Linear Systems: The Average Dwell Time Approach. *Circuits, Systems, and Signal Processing*, **2012**, 31, 1877-1886	2.2	22
23	On Finite-Time Stochastic Stability and Stabilization of Markovian Jump Systems Subject to Partial Information on Transition Probabilities. *Circuits, Systems, and Signal Processing*, **2012**, 31, 1973-1983	2.2	22
22	Controllability of switching networks of multi-agent systems. *International Journal of Robust and Nonlinear Control*, **2012**, 22, 630-644	3.6	54
21	Robust H control of discrete-time Markovian jump systems in the presence of incomplete knowledge of transition probabilities and saturating actuator. *International Journal of Robust and Nonlinear Control*, **2012**, 22, 1753-1764	3.6	24
20	On exponential stability analysis for neural networks with time-varying delays and general activation functions. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 1447-1459	3.7	36
19	New Criteria of Reachable Set Estimation for Time Delay Systems Subject to Polytopic Uncertainties. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 231-235		1
18	Controller synthesis for Markovian jump systems with incomplete knowledge of transition probabilities and actuator saturation. *Journal of the Franklin Institute*, **2011**, 348, 2417-2429	4	41
17	A new method for stability analysis of recurrent neural networks with interval time-varying delay. *IEEE Transactions on Neural Networks*, **2010**, 21, 339-44		98
16	Further Results on Robust Variance-Constrained Filtering for Uncertain Stochastic Systems with Missing Measurements. *Circuits, Systems, and Signal Processing*, **2010**, 29, 901-912	2.2	2
15	Fault tolerant control for singular systems with actuator saturation and nonlinear perturbation. *Automatica*, **2010**, 46, 569-576	5.7	195
14	Reachable set bounding for delayed systems with polytopic uncertainties: The maximal Lyapunov–Krasovskii functional approach. *Automatica*, **2010**, 46, 949-952	5.7	80
13	Robust Stability and Stabilization of Discrete Time-Delay System with Time-Varying Delay and Non-Linear Perturbations **2008**,		3
12	Delay-dependent Robust Stabilizability Criterion for Switched Time-delay Systems with Polytopic Uncertainties **2008**,		2
11	Delay-dependent Robust H Control for a Class of Switched Systems with Time Delay **2008**,		2
10	On enlarging the domain of attraction for linear systems subject to actuator saturation. *International Journal of General Systems*, **2008**, 37, 239-248	2.1	9

9	Guaranteed Cost Control for Systems with Saturating Actuators and Input Delays **2008**,		1
8	Delay-dependent H-infinity control of linear descriptor systems **2008**,		3
7	Stabilization of rectangular descriptor systems **2008**,		5
6	An Improved Set Invariance Analysis and Gain-Scheduled Control of LPV Systems Subject to Actuator Saturation. *Circuits, Systems, and Signal Processing*, **2007**, 26, 635-649	2.2	12
5	New Absolute Stability Condition for Time-Delay Systems with Sector-Bounded Nonlinearity. *Proceedings of the American Control Conference*, **2007**,	1.2	2
4	Stability Analysis and Controller Design for Linear Time Delay Systems with Actuator Saturation. *Proceedings of the American Control Conference*, **2007**,	1.2	4
3	Global Asymptotic Stability Analysis for Neural Networks with Time-Varying Delays **2006**,		1
2	On quadratic stabilizability of linear switched systems with polytopic uncertainties		2
1	Synthesis and L2-gain analysis for switched systems under event-triggered switching. *Asian Journal of Control*,	1.7	1