

# Xi-Ming Sun

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

127 papers	2,585 citations	22 h-index	48 g-index
152 ext. papers	3,310 ext. citations	4.8 avg, IF	5.85 L-index

#	Paper	IF	Citations
127	Anti-windup Synthesis for Linear Systems with Asymmetric Input Saturation: Application to Aircraft Engine Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2022</b> , 1-1	3.5	
126	Robust Distributed Nash Equilibrium Seeking for Games Under Attacks and Communication Delays. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	0
125	A Linear-nonlinear Switching Active Disturbance Rejection Voltage Controller of PMSG. <i>IEEE Transactions on Transportation Electrification</i> , <b>2022</b> , 1-1	7.6	0
124	Practical Anti-windup for Open-loop Stable Systems under Magnitude and Rate Constraints: Application to Turbofan Engines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	
123	Zonotopic Set-Membership State Estimation for Switched Systems with Restricted Switching. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	0
122	New Results for Hybrid Delay Systems with Initial Data: Razumikhin-type Stability Criteria. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	1
121	Lyapunov-Based Stability Analysis for Fluid Conveying System With Parallel Nonlinear Energy Sinks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-16	7.3	
120	Ex-ante Agent Transformation of Bayesian Games. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	1
119	New Results on Classification Modeling of Noisy Tensor Datasets: A Fuzzy Support Tensor Machine Dual Model. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-13	7.3	
118	Dynamic event-triggered output feedback control for stochastic nonlinear systems. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 215-220	0.7	0
117	Bumpless Transfer Control for Gas Turbine. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 488-493	0.7	
116	Stability analysis of a pipe conveying fluid with a nonlinear energy sink. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	4
115	Vibration Control of Conveying Fluid Pipe Based on Inerter Enhanced Nonlinear Energy Sink. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 1610-1623	3.9	4
114	Bumpless Transfer Control for Switched Linear Systems and its Application to Aero-Engines. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 2171-2182	3.9	7
113	An Adaptive Dynamic Programming Scheme for Nonlinear Optimal Control With Unknown Dynamics and Its Application to Turbofan Engines. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 367-376	11.9	10
112	A Bumpless Transfer Control Strategy for Switched Systems and Its Application to an Aero-Engine. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 52-62	11.9	10
111	Model-Based Dynamic Event-Triggered Control for Systems With Uncertainty: A Hybrid System Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 444-451	5.9	7

110	The Vulnerability of Cyber-Physical System Under Stealthy Attacks. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 637-650	5.9	24
109	Input-to-state stability analysis for homogeneous hybrid systems with bounded time-varying delays. <i>International Journal of Control</i> , <b>2021</b> , 94, 422-432	1.5	2
108	A novel multidimensional penalty-free approach for constrained optimal control of switched control systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 582-608	3.6	10
107	Synchronization of Identical Oscillators Under Matrix-Weighted Laplacian With Sampled Data. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 8, 102-113	4.9	0
106	A Generalized Interpretation of Three Types of Disturbance-Based Controllers for Perturbed Integral Systems in Frequency Domain. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 1328-1332	3.5	2
105	Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 2810-2820	7.3	5
104	Active Disturbance Rejection Control for Uncertain Nonlinear Systems Subject to Magnitude and Rate Saturation: Application to Aeroengine. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-12	7.3	5
103	A Classes of Nonlinear Active Disturbance Rejection Loop Filters for Phase-Locked Loop. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
102	A New Paralleled Semi-supervised Deep Learning Method for Remaining Useful Life Prediction. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 219-226	0.3	
101	Robust Output Constrained Control for Uncertain Nonlinear Systems Subject to Magnitude and Rate Saturation: Application to Aircraft Engine. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 6044-6053 <sup>1</sup>	11.9	1
100	A Matrosov Theorem for Hybrid Systems With Memory. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 4918-4925	5.9	
99	Convergence and Accuracy Analysis for a Distributed Static State Estimator Based on Gaussian Belief Propagation. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 4785-4791	5.9	1
98	The vulnerability of distributed state estimator under stealthy attacks. <i>Automatica</i> , <b>2021</b> , 133, 109869	5.7	7
97	A Class of Linear/Nonlinear Switching Active Disturbance Rejection Speed and Current Controllers for PMSM. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 14366-14382	7.2	8
96	Design and Control of a Novel Coaxial Tilt-Rotor UAV. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	3
95	Attitude Control of Rigid Bodies: An Energy-Optimal Geometric Switching Control Approach. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1	5.5	3
94	An Amplitude-Frequency Curve-based Parameter Sensitivity Analysis for the Conveying Fluid Pipe. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	
93	A Generalized PID Interpretation for High-order LADRC and Cascade LADRC for Servo Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	4

92	Event-triggered nonlinear systems with stochastic dynamics, transmission times, and protocols. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	3
91	Switched Dynamic Systems with Logic Switching and Its Stability Analysis. <i>SIAM Journal on Control and Optimization</i> , <b>2021</b> , 59, 1188-1217	1.9	5
90	Optimal Output Tracking of Aircraft Engine Systems: A Data-driven Adaptive Performance Seeking Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	1
89	Stabilizability analysis of logical networks with switching signal and control input. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2020</b> , 36, 100875	4.5	9
88	Modeling and controller design of a micro gas turbine for power generation. <i>ISA Transactions</i> , <b>2020</b> ,	5.5	2
87	Analysis of stabilization for nonlinear control systems with logarithmic quantized signals. <i>Asian Journal of Control</i> , <b>2020</b> , 23, 2019	1.7	
86	Event-based triggering mechanisms for nonlinear control systems. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	2
85	A Multivariable Robust Adaptive Control Scheme for Aero-engines <b>2020</b> ,		4
84	Controller Design of Aero-engines under the Distributed Architecture with Time Delays <b>2020</b> ,		2
83	Distributed robust Nash equilibrium seeking for aggregative games under persistent attacks: A hybrid systems approach. <i>Automatica</i> , <b>2020</b> , 122, 109255	5.7	11
82	Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 1833-1839	7.3	1
81	Stability and $\mathcal{L}_2$ -Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2305-2314	7.3	16
80	Stability Analysis for Homogeneous Hybrid Systems With Delays. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 3554-3561	7.3	9
79	Delay-Hybrid-Dependent Stability for Systems With Large Delays. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2752-2759	7.3	7
78	Stabilization of Linear Systems With Input Saturation and Large Delay. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 4482-4491	7.3	4
77	Stability analysis of distributed convex optimization under persistent attacks: A hybrid systems approach. <i>Automatica</i> , <b>2020</b> , 111, 108607	5.7	15
76	Monostability and Bistability of Boolean Networks Using Semitensor Products. <i>IEEE Transactions on Control of Network Systems</i> , <b>2019</b> , 6, 1379-1390	4	16
75	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9448-9457	8.9	15

74	Improved estimation on transmission intervals and delays for networked control systems using hybrid systems tools. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 1271-1278	2.5	
73	Robust tracking control of aero-engine rotor speed based on switched LPV model. <i>Aerospace Science and Technology</i> , <b>2019</b> , 91, 382-390	4.9	20
72	Congestion Games With Player-Specific Utility Functions and Its Application to NFV Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2019</b> , 16, 1870-1881	4.9	12
71	Nested Matrosov function theorem for nonlinear delayed systems. <i>Automatica</i> , <b>2019</b> , 104, 182-188	5.7	2
70	An Equation Based on Fuzzy Mathematics to Assess the Timing of Haemodialysis Initiation. <i>Scientific Reports</i> , <b>2019</b> , 9, 5871	4.9	1
69	Stability of Discrete-time Switched Positive Linear Systems with Mode-dependent Average Dwell Time. <i>Lecture Notes in Control and Information Sciences</i> , <b>2019</b> , 3-10	0.5	
68	False-Data Injection Attack in Electricity Generation System Subject to Actuator Saturation: Analysis and Design. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 1712-1719	7.3	19
67	LP-based observer design for switched positive linear time-delay systems. <i>Transactions of the Institute of Measurement and Control</i> , <b>2019</b> , 41, 2419-2427	1.8	8
66	Stability analysis of non-linear systems with multi-input signals sampled and logarithmic quantised in the framework of hybrid systems. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 1744-1752	2.5	0
65	Leader-follower Consensus of Linear Multi-Agent Systems with Input Saturation <b>2019</b> ,		2
64	Assessment of dialysis initiation by a fuzzy mathematics equation (ADIFE): a study protocol for a randomised controlled trial. <i>BMJ Open</i> , <b>2019</b> , 9, e023162	3	0
63	A Game Theoretic Approach for Service Chain Composition in Network Function Virtualization Network <b>2019</b> ,		1
62	Multivariable Control for Aero-Engine Based on Active Disturbance Rejection Control <b>2019</b> ,		1
61	Gain-Scheduled Control of Linear Differential Inclusions Subject to Actuator Saturation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8051-8059	8.9	1
60	Optimal control of Boolean control networks with average cost: A policy iteration approach. <i>Automatica</i> , <b>2019</b> , 100, 378-387	5.7	89
59	Gain-scheduled control of time-varying delay systems with input constraint. <i>International Journal of Control</i> , <b>2019</b> , 92, 2291-2299	1.5	1
58	Stability Analysis and Delay Control for Switched Positive Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 2184-2190	5.9	76
57	Stabilization of Nonlinear Systems With Time-Varying Input and State Delays by Approximate Predictor. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 3449-3455	5.9	5

56	Distributed predictor-based stabilization of continuous interconnected systems with input delays. <i>Automatica</i> , <b>2018</b> , 91, 69-78	5.7	16
55	Observer-Based Consensus for Multiagent Systems Under Stochastic Sampling Mechanism. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 2328-2338	7.3	23
54	Corrections to "Noise-to-State Stability for a Class of Random Systems With State-Dependent Switching" [Oct 16 3164-3170]. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 910-910	5.9	
53	Neural Network Modeling and Backstepping Control for Quadrotor <b>2018</b> ,		3
52	Stability Analysis of a Nonlinear Opinion Dynamics Model for Biased Assimilation <b>2018</b> ,		3
51	Fault Simulation and Diagnosis of the Aero-Engine Fuel Regulator <b>2018</b> ,		1
50	Modeling and Control Design for Quadrotors: A Controlled Hamiltonian Systems Approach. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 11365-11376	6.8	18
49	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 10387-10397	6.8	14
48	Sampled-Data-Based Consensus and $\mathcal{L}_2$ -Gain Analysis for Heterogeneous Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 1523-1531	10.2	39
47	Observability of Boolean multiplex control networks. <i>Scientific Reports</i> , <b>2017</b> , 7, 46495	4.9	9
46	Stabilization Control Design With Parallel-Triggering Mechanism. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 3260-3267	8.9	14
45	Transient state control of aero-engine based on active disturbance rejection control <b>2017</b> ,		2
44	Dissipativity for a Class of Stochastic Nonlinear Systems With State-Dependent Switching. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 86-90	3.5	12
43	Estimation of Sampling Period for Stochastic Nonlinear Sampled-Data Systems With Emulated Controllers. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 4713-4718	5.9	10
42	Adaptive Tracking Control for a Class of Stochastic Uncertain Nonlinear Systems With Input Saturation. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 2498-2504	5.9	82
41	$\mathcal{H}_\infty$ Relay Tracking Control of Multiagent Systems With the Assistance of a Voronoi Diagram. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 802-806	3.5	8
40	Observer-Based triggering mechanism for leader-following consensus of multi-agent systems with time-varying communication delay <b>2017</b> ,		1
39	A Scheduling Scheme of Linear Model Predictive Controllers for Turbofan Engines. <i>IEEE Access</i> , <b>2017</b> , 5, 24533-24541	3.5	16

38	Decentralized backstepping adaptive output tracking of large-scale stochastic nonlinear systems. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1	3.4	13
37	New approaches to positive observer design of linear positive systems <b>2017</b> ,		1
36	Gain scheduled control for linear differential inclusions subject to constraint input <b>2017</b> ,		1
35	Absolutely Exponential Stability and Temperature Control for Gas Chromatograph System Under Dwell Time Switching Techniques. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 1301-10	10.2	10
34	Redesigned Predictive Event-Triggered Controller for Networked Control System With Delays. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2195-2206	10.2	33
33	Razumikhin-type theorems for hybrid system with memory. <i>Automatica</i> , <b>2016</b> , 71, 72-77	5.7	17
32	Predictive control of nonlinear continuous networked control systems with large time-varying transmission delays and transmission protocols. <i>Automatica</i> , <b>2016</b> , 64, 76-85	5.7	36
31	Stability Theorems for Delay Differential Inclusions. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 3215-3220	5.9	13
30	Noise-to-State Stability for a Class of Random Systems With State-Dependent Switching. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 3164-3170	5.9	30
29	On Designing Event-Triggered Schemes for Networked Control Systems Subject to One-Step Packet Dropout. <i>IEEE Transactions on Industrial Informatics</i> , <b>2016</b> , 12, 902-910	11.9	31
28	Overshoot-free acceleration of aero-engines: An energy-based switching control method. <i>Control Engineering Practice</i> , <b>2016</b> , 47, 28-36	3.9	14
27	Lyapunov-Krasovskii functionals for input-to-state stability of switched non-linear systems with time-varying input delay. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 1717-1722	2.5	21
26	Robust $H_\infty$ control for time-delay networked control systems with probability constraints. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 2482-2489	2.5	9
25	Adaptive tracking control for uncertain switched systems under asynchronous switching. <i>International Journal of Robust and Nonlinear Control</i> , <b>2015</b> , 25, 3457-3477	3.6	38
24	An improved command switching controller design for turbofan aero-engine <b>2015</b> ,		1
23	A Novel Stability Analysis for Networked Predictive Control Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2014</b> , 61, 453-457	3.5	14
22	Construction of Lyapunov-Krasovskii functionals for switched nonlinear systems with input delay. <i>Automatica</i> , <b>2014</b> , 50, 1249-1253	5.7	61
21	Robust predictive control for networked control and application to DC-motor control. <i>IET Control Theory and Applications</i> , <b>2014</b> , 8, 1312-1320	2.5	16



20	Guaranteed Cost Control for Uncertain Networked Control Systems With Predictive Scheme. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2014</b> , 11, 740-748	4.9	21
19	Input-to-State Stability for Networked Predictive Control With Random Delays in Both Feedback and Forward Channels. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 3519-3526	8.9	81
18	Input-to-State Stability for Nonlinear Systems With Large Delay Periods Based on Switching Techniques. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 1789-1800	3.9	36
17	A new stability criterion for networked predictive control system with varying controller gains scheme <b>2014</b> ,		1
16	Stability Analysis of Nonlinear Switched Networked Control Systems with Periodical Packet Dropouts. <i>Circuits, Systems, and Signal Processing</i> , <b>2013</b> , 32, 1931-1947	2.2	13
15	Input-to-state stability for nonlinear systems with large delay period based on switching techniques <b>2013</b> ,		1
14	Stability analysis of nonlinear quantized and networked control systems with various communication imperfections <b>2013</b> ,		2
13	Stabilization of a Class of Switched Stochastic Systems with Time Delays Under Asynchronous Switching. <i>Circuits, Systems, and Signal Processing</i> , <b>2013</b> , 32, 347-360	2.2	23
12	Switching Tracking Control for Planar Systems with Transient Performance Constraints. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , <b>2013</b> , 39, 919-925		4
11	Integral input-to-state stability for hybrid delayed systems with unstable continuous dynamics. <i>Automatica</i> , <b>2012</b> , 48, 2359-2364	5.7	157
10	Command switching strategy based safety protection control for aeroengines <b>2012</b> ,		2
9	Stabilization of a class of switched stochastic systems with asynchronous switching <b>2012</b> ,		1
8	Asynchronous H <sub>2</sub> Control of switched delay systems with average dwell time. <i>Journal of the Franklin Institute</i> , <b>2012</b> , 349, 3159-3169	4	30
7	$L_2$ -Gain of Systems With Input Delays and Controller Temporary Failure: Zero-Order Hold Model. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 699-706	4.8	47
6	Stability of Systems With Controller Failure and Time-Varying Delay. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 2391-2396	5.9	143
5	Stability analysis for linear switched systems with time-varying delay. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2008</b> , 38, 528-33		176
4	Delay-dependent stability for discrete systems with large delay sequence based on switching techniques. <i>Automatica</i> , <b>2008</b> , 44, 2902-2908	5.7	138
3	Stability and L2-gain analysis for switched delay systems: A delay-dependent method. <i>Automatica</i> , <b>2006</b> , 42, 1769-1774	5.7	591



2	Bumpless transfer design of virtual actuator against actuator failure. <i>International Journal of Control</i> ,1-12	1.5	0
1	Remaining useful life predictions for turbofan engine degradation based on concurrent semi-supervised model. <i>Neural Computing and Applications</i> ,1	4.8	4