

Xiaogang Xiong

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Free-Will Arbitrary Time Consensus for Multiagent Systems. IEEE Transactions on Cybernetics, 2022, 52, 4636-4646.	9.5	31
2	Discrete-Time Implementation of Super-Twisting Control With Semi-Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 99-103.	3.0	4
3	Discrete-Time Super-Twisting Fractional-Order Observer With Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2787-2791.	3.0	3
4	DNN-Aided Codebook Based Beamforming for FDD Millimeter-Wave Massive MIMO Systems Under Multipath. IEEE Transactions on Vehicular Technology, 2022, 71, 437-452.	6.3	5
5	Toward UL-DL Rate Balancing: Joint Resource Allocation and Hybrid-Mode Multiple Access for UAV-BS-Assisted Communication Systems. IEEE Transactions on Communications, 2022, 70, 2757-2771.	7.8	12
6	Interval observer design for nonlinear systems using simplified contraction theory. IET Control Theory and Applications, 2022, 16, 935-944.	2.1	1
7	Modeling and Observation of Rate-Dependent Hysteresis and Creep Phenomena in Magnetorheological Clutch. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2053-2061.	5.8	6
8	Discrete-Time Multivariable Super-Twisting Algorithm With Semi-Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4443-4447.	3.0	1
9	Discrete-Time Super-Twisting Observer With Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1288-1292.	3.0	5
10	A Wide Voltage Gain Bidirectional DC-DC Converter Based on Quasi Z-Source and Switched Capacitor Network. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1353-1357.	3.0	21
11	Discrete-Time Super-Twisting Fractional-Order Differentiator With Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1238-1242.	3.0	11
12	Adaptive gains to super-twisting technique for sliding mode design. Asian Journal of Control, 2021, 23, 362-373.	3.0	17
13	Implicit Discrete-Time Adaptive First-Order Sliding Mode Control With Predefined Convergence Time. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3562-3566.	3.0	6
14	Implicit Discrete-Time Terminal Sliding Mode Control for Second-Order Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2508-2512.	3.0	6
15	Quantized feedback hands-off control for nonlinear systems. IET Control Theory and Applications, 2021, 15, 1364-1374.	2.1	3
16	Multi-State Modelling and Observation of Magneto-Rheological Clutch With Rate-Dependent Hysteresis Characteristic. IEEE Robotics and Automation Letters, 2021, 6, 2445-2452.	5.1	2
17	Implicit-Euler based digital implementation for constrained stabilization of second-order systems. International Journal of Robust and Nonlinear Control, 2021, 31, 5086-5100.	3.7	2
18	Discrete-Time Adaptive Super-Twisting Observer With Predefined Arbitrary Convergence Time. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2057-2061.	3.0	6

#	ARTICLE	IF	CITATIONS
19	Delayed output feedback based leader-follower and leaderless consensus control of uncertain multiagent systems. IET Control Theory and Applications, 2021, 15, 1956-1970.	2.1	4
20	Consensus problems in multiagent systems: A vector based contraction approach. IET Control Theory and Applications, 2021, 15, 2195-2209.	2.1	6
21	Quasi-Impedance-Source-Network-Based Nonisolated High-Step-Up DC-DC Converter. IEEE Transactions on Industry Applications, 2021, 57, 6405-6416.	4.9	7
22	A Generalized Switched Inductor Cell Modular Multilevel Inverter. IEEE Transactions on Industry Applications, 2020, 56, 507-518.	4.9	15
23	Liquid alloy electrode for no-wear micro electrical discharge machining. International Journal of Advanced Manufacturing Technology, 2020, 106, 1281-1290.	3.0	2
24	Implicit-Euler Implementation of Super-Twisting Observer and Twisting Controller for Second-Order Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2607-2611.	3.0	33
25	Investigation of a Liquid-Phase Electrode for Micro-Electro-Discharge Machining. Micromachines, 2020, 11, 935.	2.9	3
26	A Family of Novel Fast Algorithms to Improve Computing Efficiency of Set-Based Direct Visual Servoing. IEEE Access, 2020, 8, 108260-108269.	4.2	0
27	Investigation of multielectrode multiloop with series capacitance pulse generator for EDM. International Journal of Advanced Manufacturing Technology, 2020, 109, 143-154.	3.0	3
28	A Variable Gain Sliding Mode Tracking Differentiator for Derivative Estimation of Noisy Signals. IEEE Access, 2020, 8, 148500-148509.	4.2	4
29	An Ultra High Gain Quasi-Z-Source Inverter Consisting Active Switched Network. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3207-3211.	3.0	15
30	A Chattering-Free Sliding Mode Filter Enhanced by First Order Derivative Feedforward. IEEE Access, 2020, 8, 41175-41185.	4.2	4
31	High Gain Quasi-Switched Boost Inverter With Optimal Performance Parameters. IEEE Transactions on Transportation Electrification, 2020, 6, 554-567.	7.8	13
32	Switched-LC Based High Gain Converter With Lower Component Count. IEEE Transactions on Industry Applications, 2020, 56, 2816-2827.	4.9	29
33	Nonsmooth PI Controller for Uncertain Systems. IEEE Access, 2020, 8, 124792-124801.	4.2	2
34	Discrete-time sector based hands-off control for nonlinear system. International Journal of Robust and Nonlinear Control, 2020, 30, 2443-2460.	3.7	11
35	A High Voltage Gain DC-DC Converter With Common Grounding for Fuel Cell Vehicle. IEEE Transactions on Vehicular Technology, 2020, 69, 8290-8304.	6.3	26
36	Discrete-Time Sliding Mode Filter with Parameter adaptation. , 2020, , .		0

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37	A noise attenuating sliding mode filter with improved sliding surface. , 2020, , .		1
38	A New Quick-Response Sliding Mode Tracking Differentiator With its Chattering-Free Discrete-Time Implementation. IEEE Access, 2019, 7, 130236-130245.	4.2	13
39	High Gain Quasi-Mutually Coupled Active Impedance Source Converter Utilizing Reduced Components Count. IEEE Transactions on Industry Applications, 2019, 55, 6376-6388.	4.9	5
40	Long-Term Effects of a Soft Robotic Suit on Gait Characteristics in Healthy Elderly Persons. Applied Sciences (Switzerland), 2019, 9, 1957.	2.5	11
41	A Double Stage EKF-based Stereo Visual Inertial Odometry. , 2019, , .		2
42	Discrete-Time Implementation of Continuous Terminal Algorithm With Implicit-Euler Method. IEEE Access, 2019, 7, 175940-175946.	4.2	3
43	A $[K, KL]$ sector based control design for nonlinear system. ISA Transactions, 2019, 89, 77-83.	5.7	11
44	Sliding Mode Control of Quasi-Static Micro Mirrors with Implicit-Euler Implementation. , 2018, , .		2
45	Parabolic Sliding Mode Filtering with Feed-Forward Compensation. , 2018, , .		0
46	A High Gain DC-DC Converter based on Switched Capacitor/Switched Inductor Arrangement. , 2018, , .		2
47	An Enhanced Hysteresis Filtering for Removing Impulsive Noise. , 2018, , .		0
48	A Discrete-time Sliding Mode Estimator with Adaptive Sliding Surface. , 2018, , .		0
49	A Soft Wearable Robotic Suit for Ankle and Hip Assistance: a Preliminary Study. , 2018, 2018, 1867-1870.		6
50	Adaptive gains of dual level to super-twisting algorithm for sliding mode design. IET Control Theory and Applications, 2018, 12, 2347-2356.	2.1	19
51	Discrete-Time Algorithms of a Parabolic Sliding Mode Filter: A Comparative Review. , 2018, , .		0
52	Multilayer Hybrid Deep-Learning Method for Waste Classification and Recycling. Computational Intelligence and Neuroscience, 2018, 2018, 1-9.	1.7	145
53	Influence of a Soft Robotic Suit on Metabolic Cost in Long-Distance Level and Inclined Walking. Applied Bionics and Biomechanics, 2018, 2018, 1-8.	1.1	12
54	Frequency Domain Analysis for An Adaptive Windowing Parabolic Sliding Mode Filter. MATEC Web of Conferences, 2017, 95, 14005.	0.2	2

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55	Tuning Guidelines for an Adaptive-Gain Parabolic Sliding Mode Filter. Applied Sciences (Switzerland), 2017, 7, 209.	2.5	3
56	Enhanced Discrete-Time Sliding Mode Filter for Removing Noise. Mathematical Problems in Engineering, 2017, 2017, 1-12.	1.1	4
57	Discrete-Time Sliding Mode Filter with Adaptive Gain. Applied Sciences (Switzerland), 2016, 6, 400.	2.5	9
58	Implicit Euler simulation of one-dimensional Burridge-Knopoff model of earthquakes with set-valued friction laws. Advances in Computational Mathematics, 2015, 41, 1039-1057.	1.6	4
59	A Contact Force Model With Nonlinear Compliance and Residual Indentation1. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	2
60	A Multistate Friction Model Described by Continuous Differential Equations. Tribology Letters, 2013, 51, 513-523.	2.6	14
61	Backward-Euler Discretization of Second-Order Sliding Mode Control and Super-Twisting Observer for Accurate Position Control. , 2013, , .		7
62	A Differential Algebraic Method to Approximate Nonsmooth Mechanical Systems by Ordinary Differential Equations. Journal of Applied Mathematics, 2013, 2013, 1-13.	0.9	9
63	A Differential-Algebraic Contact Model With Nonlinear Compliance. , 2012, , .		0
64	A Differential-Algebraic Multistate Friction Model. Lecture Notes in Computer Science, 2012, , 77-88.	1.3	3
65	Research on the nonlinearity correction method for the piezoelectric optical scanner in a lidar system. , 2010, , .		1
66	An analog notch filter for piezoelectric optical scanner. Frontiers of Optoelectronics in China, 2010, 3, 370-375.	0.2	0