

Bijnan Bandyopadhyay

List of Publications by Year in descending order

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77
papers

2,206
citations

304743

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all docs

80
docs citations

80
times ranked

1514
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementation of Super-Twisting Control: Super-Twisting and Higher Order Sliding-Mode Observer-Based Approaches. IEEE Transactions on Industrial Electronics, 2016, 63, 3677-3685.	7.9	394
2	A generalized reaching law for discrete time sliding mode control. Automatica, 2015, 52, 83-86.	5.0	170
3	Event-triggered sliding mode control for a class of nonlinear systems. International Journal of Control, 2016, 89, 1916-1931.	1.9	140
4	Periodic event-triggered sliding mode control. Automatica, 2018, 96, 61-72.	5.0	134
5	Design of controllers with arbitrary convergence time. Automatica, 2020, 112, 108710.	5.0	133
6	A generalized reaching law with different convergence rates. Automatica, 2016, 63, 34-37.	5.0	122
7	Robust Sliding Mode Control: An Event-Triggering Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 146-150.	3.0	101
8	Stabilization and Control of Fractional Order Systems: A Sliding Mode Approach. Lecture Notes in Electrical Engineering, 2015, , .	0.4	91
9	A New Algorithm for Continuous Sliding Mode Control With Implementation to Industrial Emulator Setup. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2194-2204.	5.8	85
10	Event-triggered sliding mode-based tracking control for uncertain Euler-Lagrange systems. IET Control Theory and Applications, 2018, 12, 1228-1235.	2.1	67
11	Sliding Mode Control for Slosh-Free Motion Using a Nonlinear Sliding Surface. IEEE/ASME Transactions on Mechatronics, 2013, 18, 714-724.	5.8	59
12	Self-triggering-based sliding mode control for linear systems. IET Control Theory and Applications, 2015, 9, 2541-2547.	2.1	48
13	A Three-Time-Scale Approach for Design of Linear State Regulator for Spatial Control of Advanced Heavy Water Reactor. IEEE Transactions on Nuclear Science, 2011, 58, 1264-1276.	2.0	39
14	Steady-state behaviour of discretized terminal sliding mode. Automatica, 2015, 54, 176-181.	5.0	37
15	Robust Finite-Time Tracking of Stewart Platform: A Super-Twisting Like Observer-Based Forward Kinematics Solution. IEEE Transactions on Industrial Electronics, 2017, 64, 3776-3785.	7.9	37
16	A Survey on Event-Triggered Sliding Mode Control. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 206-217.	3.9	37
17	Event based robust stabilization of linear systems. , 2014, , .		34
18	Output feedback based event-triggered sliding mode control for delta operator systems. Automatica, 2019, 103, 1-10.	5.0	34

#	ARTICLE	IF	CITATIONS
19	A new geometric proof of super-twisting control with actuator saturation. Automatica, 2018, 87, 437-441.	5.0	30
20	Design of Fast Output Sampling Controller for Three-Time-Scale Systems: Application to Spatial Control of Advanced Heavy Water Reactor. IEEE Transactions on Nuclear Science, 2011, 58, 3305-3316.	2.0	29
21	Event-Triggered Sliding Mode Control. Studies in Systems, Decision and Control, 2018, , .	1.0	27
22	Implementation of Super-Twisting Control on Higher Order Perturbed Integrator System using Higher Order Sliding Mode Observer. IFAC-PapersOnLine, 2016, 49, 873-878.	0.9	22
23	Event-triggered sliding mode control for a high-order system via reduced-order model based design. Automatica, 2020, 121, 109163.	5.0	22
24	Event-Triggered Sliding Mode Control for Robust Stabilization of Linear Multivariable Systems. Studies in Systems, Decision and Control, 2015, , 155-175.	1.0	21
25	Discrete sliding mode control for systems with arbitrary relative degree output. , 2016, , .		16
26	Discrete event-triggered sliding mode control with fast output sampling feedback. , 2016, , .		15
27	Improved output-feedback second order sliding mode control design with implementation for underactuated slosh-container system having confined track length. IET Control Theory and Applications, 2017, 11, 1316-1323.	2.1	15
28	Robust non-overshooting tracking using continuous control for linear multivariable systems. IET Control Theory and Applications, 2018, 12, 1006-1011.	2.1	15
29	Posture Stabilization of Unicycle Mobile Robot using Finite Time Control Techniques. IFAC-PapersOnLine, 2016, 49, 379-384.	0.9	14
30	Output Tracking of Nonminimum-Phase Systems via Reduced-Order Sliding-Mode Design. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1981-1992.	5.8	13
31	Practical Sliding Mode Using State Depended Intermittent Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 341-345.	3.0	13
32	Sliding mode control of uncertain fractional-order systems: A reaching phase free approach. Asian Journal of Control, 2021, 23, 199-208.	3.0	13
33	Event based sliding mode control with quantized measurement. , 2015, , .		11
34	Dynamic event-triggering based design of sliding mode control. International Journal of Robust and Nonlinear Control, 2021, 31, 5910-5925.	3.7	11
35	Discrete-Time Sliding Mode Control Design for Unicycle Robot With Bounded Inputs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2912-2916.	3.0	10
36	Event-triggered sliding mode control for delta operator systems. , 2016, , .		9

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37	Multifunctional Arc-Welding Controller Using SOSMC Technique. IEEE Transactions on Control Systems Technology, 2019, 27, 2245-2253.	5.2	9
38	Sliding Mode Control of Gas Turbines Using Multirate-Output Feedback. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	1.1	8
39	Design of roll autopilot for a tail controlled missile using sliding mode technique. , 2010, , .		8
40	Decentralized event-triggered sliding mode control. , 2015, , .		8
41	Robust nonovershooting tracking controller for descriptor systems. European Journal of Control, 2018, 43, 57-63.	2.6	8
42	Finite-time posture stabilization of the unicycle mobile robot using only position information: A discrete-time sliding mode approach. International Journal of Robust and Nonlinear Control, 2019, 29, 1990-2006.	3.7	8
43	Continuous higher order sliding mode control for a class of uncertain MIMO nonlinear systems: An ISS approach. European Journal of Control, 2018, 41, 1-7.	2.6	7
44	Authors' Reply To: (CI 20-0229) Comments on Design of controllers with arbitrary convergence time [Automatica 108710]. Automatica, 2020, 122, 109194.	5.0	7
45	Free-Will Arbitrary Time Terminal Sliding Mode Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3189-3193.	3.0	7
46	Roll autopilot design using second order sliding mode. International Journal of Automation and Control, 2013, 7, 202.	0.5	6
47	Output-feedback control of arc length for manual gas metal arc welding with higher order sliding modes. International Journal of Modelling, Identification and Control, 2014, 21, 418.	0.2	6
48	Robust Composite Non-linear Feedback Control For Descriptor Systems With General Reference Tracking. , 2018, , .		6
49	Robust Control for Two-Time-Scale Discrete Interval Systems. Reliable Computing, 2006, 12, 45-58.	0.8	4
50	Event-Triggered Sliding Mode Control with Quantized State Measurements. Studies in Systems, Decision and Control, 2018, , 113-126.	1.0	4
51	Robust nonovershooting tracking control for fractional-order systems. International Journal of Robust and Nonlinear Control, 2019, 29, 3841-3858.	3.7	4
52	Discrete-time Sliding Mode Control with Outputs of Relative Degree More than One. , 2017, , .		3
53	Periodically monotonic tracking using intermittent control with multirate output feedback. , 2018, , .		3
54	Robust output regulation for state feedback descriptor systems with nonovershooting behavior. European Journal of Control, 2020, 52, 19-25.	2.6	3

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55	Tracking control for nonminimum phase MIMO micro aerial vehicle " a dynamic sliding manifold approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2016, 230, 1001-1029.	1.0	2
56	Event-Triggered Sliding Mode Control for Nonlinear Systems. Studies in Systems, Decision and Control, 2018, , 55-76.	1.0	2
57	On Stability of Event-Triggered Systems With Sliding Mode Control. , 2018, , .		2
58	Discrete Event-Triggered Sliding Mode Control. Studies in Systems, Decision and Control, 2018, , 289-304.	1.0	2
59	Industry-Grade Robust Controller Design for Constant Voltage Arc Welding Process. Studies in Systems, Decision and Control, 2021, , 393-417.	1.0	2
60	Stability analysis of small satellite formation flying and reconfiguration missions in deep space. , 2012, , .		1
61	Robust control and state estimation of micro aerial vehicle using sliding mode technique. , 2015, , .		1
62	Robust nonovershooting tracking control for linear multivariable systems. , 2017, , .		1
63	Discrete Event-Triggered Sliding Mode Control for Linear Systems. Studies in Systems, Decision and Control, 2018, , 93-112.	1.0	1
64	Self-Triggered Sliding Mode Control for Linear Systems. Studies in Systems, Decision and Control, 2018, , 77-91.	1.0	1
65	Discrete Time Intermittent Sliding Mode Control with Multirate Output Feedback. , 2018, , .		1
66	Observer Based Event-Triggered Sliding Mode Control for Uncertain Chain of Integrators System. , 2019, , .		1
67	Reduced-order sliding function design for a class of nonlinear systems. Asian Journal of Control, 2020, 22, 1437-1446.	3.0	1
68	Robust output tracking for the non-minimum phase over-actuated systems. Automatica, 2021, 131, 109726.	5.0	1
69	Event-triggered Discrete-time Sliding Mode Control for High-order Systems via Reduced-order Model Approach. IFAC-PapersOnLine, 2020, 53, 6207-6212.	0.9	1
70	Robust Continuous Finite-Time Tracking Control with Finite-Time Observer for a Stewart Platform. , 2022, , .		1
71	A Lipschitz continuous sliding mode control for implicit systems. European Journal of Control, 2022, 67, 100661.	2.6	1
72	A Finite-time Sliding Mode Observer for a Class of Perturbed Nonholonomic Systems. , 2018, , .		0

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73	Integral Sliding Mode Control for Fractional Order Descriptor Systems. , 2019, , .		0
74	Backstepping-Induced Terminal Sliding Mode Control with Strict Lyapunov Function. , 2020, , .		0
75	Higher Order Sliding Mode-Based Guidance for Controlling Statically Unstable Missiles. , 2021, 6, 415.		0
76	Design of Periodic Event-Triggered Sliding Mode Control. Studies in Systems, Decision and Control, 2021, , 161-180.	1.0	0
77	Robust Unknown Input Observer for Uncertain Non-Linear Systems using Sliding Modes with Fault Detection. , 2021, , .		0