

Andrzej Bartoszewicz

List of Publications by Year in descending order

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130
papers

2,439
citations

201575

27
h-index

214721

47
g-index

135
all docs

135
docs citations

135
times ranked

921
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete-time quasi-sliding-mode control strategies. IEEE Transactions on Industrial Electronics, 1998, 45, 633-637.	5.2	508
2	Time-varying sliding modes for second-order systems. IET Control Theory and Applications, 1996, 143, 455-462.	1.7	122
3	New Switching and Nonswitching Type Reaching Laws for SMC of Discrete Time Systems. IEEE Transactions on Control Systems Technology, 2016, 24, 670-677.	3.2	119
4	Reaching Law Approach to the Sliding Mode Control of Periodic Review Inventory Systems. IEEE Transactions on Automation Science and Engineering, 2014, 11, 810-817.	3.4	101
5	A comment on "A time-varying sliding surface for fast and robust tracking control of second-order uncertain systems". Automatica, 1995, 31, 1893-1895.	3.0	96
6	Discrete time sliding mode control with reduced switching "a new reaching law approach. International Journal of Robust and Nonlinear Control, 2016, 26, 47-68.	2.1	77
7	ITAE Optimal Sliding Modes for Third-Order Systems With Input Signal and State Constraints. IEEE Transactions on Automatic Control, 2010, 55, 1928-1932.	3.6	72
8	Linear-Quadratic Optimal Control of Periodic-Review Perishable Inventory Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1400-1407.	3.2	67
9	Linear quadratic optimal control strategy for periodic-review inventory systems. Automatica, 2010, 46, 1982-1993.	3.0	64
10	Improved robustness and performance of discrete time sliding mode control systems. ISA Transactions, 2016, 65, 143-149.	3.1	58
11	Sliding Mode Control. International Journal of Adaptive Control and Signal Processing, 2007, 21, 635-637.	2.3	57
12	LQ Optimal Sliding Mode Supply Policy for Periodic Review Inventory Systems. IEEE Transactions on Automatic Control, 2010, 55, 269-274.	3.6	57
13	Discrete-Time Sliding-Mode Congestion Control in Multisource Communication Networks With Time-Varying Delay. IEEE Transactions on Control Systems Technology, 2011, 19, 852-867.	3.2	53
14	A new reaching law for sliding mode control of continuous time systems with constraints. Transactions of the Institute of Measurement and Control, 2015, 37, 515-521.	1.1	47
15	Discrete-Time Sliding-Mode Control With a Desired Switching Variable Generator. IEEE Transactions on Automatic Control, 2020, 65, 1807-1814.	3.6	47
16	SMC without the reaching phase "the switching plane design for the third-order system. IET Control Theory and Applications, 2007, 1, 1461-1470.	1.2	46
17	Linear Quadratic Optimal Discrete-Time Sliding-Mode Controller for Connection-Oriented Communication Networks. IEEE Transactions on Industrial Electronics, 2008, 55, 4013-4021.	5.2	46
18	Reaching law based sliding mode congestion control for communication networks. IET Control Theory and Applications, 2014, 8, 1914-1920.	1.2	46

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19	Generalization of Gao's Reaching Law for Higher Relative Degree Sliding Variables. IEEE Transactions on Automatic Control, 2018, 63, 3173-3179.	3.6	43
20	Reaching law for DSMC systems with relative degree 2 switching variable. International Journal of Control, 2017, 90, 1626-1638.	1.2	41
21	LQ optimal sliding-mode supply policy for periodic-review perishable inventory systems. Journal of the Franklin Institute, 2012, 349, 1561-1582.	1.9	38
22	Sliding Mode Dead-Beat Control of Perishable Inventory Systems With Multiple Suppliers. IEEE Transactions on Automation Science and Engineering, 2012, 9, 418-423.	3.4	37
23	Event-Triggered Discrete Higher-Order SMC for Networked Control System Having Network Irregularities. IEEE Transactions on Industrial Informatics, 2020, 16, 6837-6847.	7.2	36
24	Discrete Time Sliding Mode Flow Controller for Multi-source Single-bottleneck Connection-oriented Communication Networks. JVC/Journal of Vibration and Control, 2009, 15, 1745-1760.	1.5	29
25	Linear quadratic optimal sliding mode flow control for connection-oriented communication networks. International Journal of Robust and Nonlinear Control, 2009, 19, 442-461.	2.1	28
26	Nonlinear flow control strategies for connection-oriented communication networks. IET Control Theory and Applications, 2006, 153, 21-28.	1.7	27
27	LQ optimal and reaching law-based sliding modes for inventory management systems. International Journal of Systems Science, 2012, 43, 105-116.	3.7	27
28	A New General Type-2 Fuzzy Predictive Scheme for PID Tuning. Applied Sciences (Switzerland), 2021, 11, 10392.	1.3	27
29	Sliding-mode control of the third-order system subject to velocity, acceleration and input signal constraints. International Journal of Adaptive Control and Signal Processing, 2007, 21, 779-794.	2.3	26
30	Congestion Control in Data Transmission Networks. Communications and Control Engineering, 2013, , .	1.0	20
31	Model reference discrete-time variable structure control. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1440-1452.	2.3	20
32	Dead-beat and reaching-law-based sliding-mode control of perishable inventory systems. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2011, 59, 39-49.	0.8	19
33	Barrier Function Adaptive Nonsingular Terminal Sliding Mode Control Approach for Quad-Rotor Unmanned Aerial Vehicles. Sensors, 2022, 22, 909.	2.1	19
34	Experimental verification of SMC with moving switching lines applied to hoisting crane vertical motion control. ISA Transactions, 2012, 51, 682-693.	3.1	17
35	Reaching Law Based Discrete Time Sliding Mode Inventory Management Strategy. IEEE Access, 2016, 4, 10051-10058.	2.6	14
36	Finite-Time Tracking Controller Design of Perturbed Robotic Manipulator Based on Adaptive Second-Order Sliding Mode Control Method. IEEE Access, 2021, 9, 71159-71169.	2.6	14

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37	Frequency Regulation System: A Deep Learning Identification, Type-3 Fuzzy Control and LMI Stability Analysis. <i>Energies</i> , 2021, 14, 7801.	1.6	12
38	Optimal design of the shifted switching planes for VSC of a third-order system. <i>Transactions of the Institute of Measurement and Control</i> , 2006, 28, 335-352.	1.1	11
39	Automated lumped-element simulation framework for modelling of transient effects in superconducting magnets. , 2015, , .		11
40	Sliding mode control of inventory management systems with bounded batch size. <i>Applied Mathematical Modelling</i> , 2019, 66, 296-304.	2.2	11
41	Model Reference DSMC With a Relative Degree Two Switching Variable. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 1749-1755.	3.6	9
42	An optimal sliding mode congestion controller for connection-oriented communication networks with lossy links. <i>International Journal of Applied Mathematics and Computer Science</i> , 2014, 24, 87-97.	1.5	9
43	A Reference Trajectory Based Discrete Time Sliding Mode Control Strategy. <i>International Journal of Applied Mathematics and Computer Science</i> , 2019, 29, 517-525.	1.5	9
44	Discrete time congestion controllers for multi-source connection-oriented communication networks. <i>International Journal of Control</i> , 2009, 82, 1237-1252.	1.2	8
45	A new reaching law based sliding mode flow controller for connection-oriented data transmission networks. , 2014, , .		8
46	Hyperbolic tangent based switching reaching law for discrete time sliding mode control of dynamical systems. , 2015, , .		8
47	A Hybrid Predictive Type-3 Fuzzy Control for Time-Delay Multi-Agent Systems. <i>Electronics (Switzerland)</i> , 2022, 11, 63.	1.8	8
48	LQ Optimal Sliding Mode Control of Periodic Review Perishable Inventories with Transportation Losses. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	0.6	7
49	Discrete time sliding mode controllers with relative degree one and two switching variables. <i>Journal of the Franklin Institute</i> , 2018, 355, 6889-6903.	1.9	7
50	Shifted Switching Plane Design for Third-Order Systems with Elastic and Conventional Input Constraints. <i>Circuits, Systems, and Signal Processing</i> , 2006, 25, 661-684.	1.2	6
51	Inverse tangent based switching type reaching law for discrete time sliding mode control systems. , 2015, , .		6
52	Damping of Subsynchronous Resonance in Utility DFIG-Based Wind Farms Using Wide-Area Fuzzy Control Approach. <i>Energies</i> , 2022, 15, 1787.	1.6	6
53	Inventory management strategies with higher relative degree sliding variables. , 2017, , .		5
54	Sliding Mode Control with Minimization of the Regulation Time in the Presence of Control Signal and Velocity Constraints. <i>Energies</i> , 2021, 14, 2887.	1.6	5

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55	Time-Varying Sliding Modes for the Second Order Systems. Lecture Notes in Control and Information Sciences, 2009, , 17-65.	0.6	5
56	New reaching law for quasi-sliding mode control of discrete time systems. , 2013, , .		4
57	Non-switching reaching law based discrete time quasi-sliding mode control with application to warehouse management problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4589-4594.	0.4	4
58	Terminal sliding mode control of second order systems with velocity constraint. , 2018, , .		4
59	Optimal Model Reference Sliding Mode Control of Perishable Inventory Systems. IEEE Transactions on Automation Science and Engineering, 2020, , 1-10.	3.4	4
60	Elastic and conventional constraints in sliding mode control of second order system. , 2008, , .		3
61	ITAE optimal sliding mode control of cable suspended loads. , 2009, , .		3
62	Dead-time compensation in continuous-review perishable inventory systems with a remote supply source. Archives of Control Sciences, 2011, 21, .	1.7	3
63	Discrete time sliding mode inventory management — Hyperbolic tangent reaching law based approach. , 2014, , .		3
64	Discreteâ€Time Sliding Mode Control with Outputs of Relative Degree More than One. , 2017, , .		3
65	IAE optimal sliding mode control for second order dynamical systems. , 2018, , .		3
66	Zero-Width Quasi-Sliding Mode Band in the Presence of Non-Matched Uncertainties. Energies, 2021, 14, 3011.	1.6	3
67	LQ Optimal Control of Periodic Review Perishable Inventories with Transportation Losses. Advances in Intelligent Systems and Computing, 2014, , 45-55.	0.5	3
68	Discrete Time Sliding Mode Flow Controllers for Connection-Oriented Networks with Lossy Links. Cybernetics and Information Technologies, 2013, 13, 107-121.	0.4	3
69	Dependable Sensor Fault Reconstruction in Air-Path System of Heavy-Duty Diesel Engines. Sensors, 2021, 21, 7788.	2.1	3
70	A MOVING SWITCHING PLANE FOR THE SLIDING MODE CONTROL OF THE THIRD ORDER SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 610-615.	0.4	2
71	A New Procedure of Time-Varying Switching Plane Design. , 2006, , .		2
72	Discreteâ€time linearâ€quadratic (LQ) optimal and nonlinear flow control in multiâ€source connectionâ€oriented communication networks. European Transactions on Telecommunications, 2009, 20, 679-688.	1.2	2

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73	ITAE optimal transient performance in SMC of third order systems with state and input constraints. , 2009, , .		2
74	ITAE optimal variable structure control of second order systems with input signal and velocity constraints. <i>Kybernetes</i> , 2009, 38, 1093-1105.	1.2	2
75	Congestion Control in Data Transmission Networks: Historical Perspective. <i>Communications and Control Engineering</i> , 2013, , 9-44.	1.0	2
76	Sliding mode control: Concepts ideas and impressions. , 2013, , .		2
77	Variable structure flow controller for connection-oriented communication networks. , 2013, , .		2
78	Non-switching reaching law for sliding mode control of discrete time systems. , 2013, , .		2
79	Inverse tangent reaching law for discrete sliding mode control with application to inventory management. , 2014, , .		2
80	Conventional sliding modes in continuous and discrete time domains. , 2017, , .		2
81	A new reaching law based DSMC for inventory management systems. , 2017, , .		2
82	Reaching phase elimination in terminal sliding mode control of second order systems. , 2018, , .		2
83	<scp>Reference</scp> model based discrete time sliding mode control of communication networks. <i>International Journal of Adaptive Control and Signal Processing</i> , 2020, 34, 1739-1750.	2.3	2
84	Model reference strategy for mismatched disturbance attenuation in relative degree one and two DSMC. <i>Mechanical Systems and Signal Processing</i> , 2021, 149, 107188.	4.4	2
85	Reaching Law Based Sliding Mode Control of Sampled Time Systems. <i>Energies</i> , 2021, 14, 1882.	1.6	2
86	Moving Switching Plane Selection for the Third Order System Subject to Input and Acceleration Constraints. , 2006, , .		1
87	Transient Performance Optimization in SMC of Third Order Systems with Velocity and Input Constraints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 689-694.	0.4	1
88	Experimental Verification of Optimal Sliding Mode Controllers for Hoisting Cranes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 11006-11011.	0.4	1
89	Linear quadratic optimal congestion control strategy for connection-oriented networks with lossy links. , 2013, , .		1
90	Dead-beat sliding mode control of perishable inventories with transportation losses and multiple suppliers. , 2013, , .		1

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91	Quasi-Sliding Networked Control of Systems Subject to Unbounded Disturbance with Limited Rate of Change. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-10.	0.6	1
92	Application of higher relative degree sliding variables for congestion control in communication networks. , 2017, , .		1
93	Sliding Mode Control with Time-Varying Switching Hyperplane for Data Transmission Networks. , 2018, , .		1
94	Relative degree one and two sliding variables for multi-input discrete-time systems. , 2019, , .		1
95	Reaching law based DSMC with a reference model. <i>IFAC-PapersOnLine</i> , 2019, 52, 777-782.	0.5	1
96	A Robust H ∞ Fault Tolerant Controller for Uncertain Systems Described by Linear Fractional Transformation Model. <i>IEEE Access</i> , 2021, 9, 104749-104760.	2.6	1
97	Design and Implementation of Morphed Multi-Rotor Vehicles with Real-Time Obstacle Detection and Sensing System. <i>Sensors</i> , 2021, 21, 6192.	2.1	1
98	Sliding Mode Control of Discrete Time Dynamical Systems with State Constraints. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 4-13.	0.5	1
99	Reference Trajectory Based Quasi-Sliding Mode with Event-Triggered Control. <i>Energies</i> , 2021, 14, 7236.	1.6	1
100	IAE Minimization in Sliding Mode Control With Input and Velocity Constraints. <i>IEEE Access</i> , 2022, 10, 28631-28641.	2.6	1
101	Terminally Stable Sliding Mode Control for Second-Order Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997, 30, 43-48.	0.4	0
102	Switching Line Design for VSC of the Second Order Systems with Conventional and Elastic Constraints. , 2006, , .		0
103	Congestion Control in Multi-Source Communication Networks " a Time-Varying Sampling Period System Case Study. , 2007, , .		0
104	A comment on the "Robust mixed time-optimal control for third-order systems with model uncertainty"™. <i>International Journal of Systems Science</i> , 2008, 39, 1179-1179.	3.7	0
105	Time-Varying Sliding Plane Design for Congestion Control in Multi-Source Connection-Oriented Communication Networks. , 2008, , .		0
106	Sliding-mode dead-beat control of perishable inventory systems with positive lead-time and uncertain demand. , 2010, , .		0
107	Composite control of periodic-review just-in-time inventory systems with asymmetric costs. , 2010, , .		0
108	DSM control of inventory systems with deteriorating stock and multiple supply sources. , 2011, , .		0

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109	Robust flow controller for a single virtual circuit in connection-oriented networks with lossy links. , 2012, , .		0
110	Flow Control in Sampled Data Systems. Communications and Control Engineering, 2013, , 289-329.	1.0	0
111	Discrete Sliding-Mode Congestion Control in TCP Networks. Communications and Control Engineering, 2013, , 331-371.	1.0	0
112	Flow Control in a Single-Source Discrete-Time System. Communications and Control Engineering, 2013, , 87-196.	1.0	0
113	Flow Control in Continuous-Time Systems. Communications and Control Engineering, 2013, , 61-86.	1.0	0
114	Flow Control in a Multisource Discrete-Time System. Communications and Control Engineering, 2013, , 197-288.	1.0	0
115	Sliding mode control of time delay systems - A non-switching type reaching law approach. , 2013, , .		0
116	Refined reaching laws for sliding mode control of discrete time systems. , 2013, , .		0
117	Fundamentals of Sliding-Mode Controller Design. Communications and Control Engineering, 2013, , 45-60.	1.0	0
118	Switching DSM Control of Perishable Inventory Systems with Delayed Shipments and Uncertain Demand. Lecture Notes in Control and Information Sciences, 2013, , 361-379.	0.6	0
119	Inventory replenishment control: A predictive approach. , 2013, , .		0
120	Quasi-sliding mode networked controller for linear discrete time systems subject to disturbance. , 2014, , .		0
121	Modeling and discrete time SMC of inventory systems. , 2014, , .		0
122	Non-switching type reaching law with application to congestion control in connection-oriented communication networks. , 2014, , .		0
123	A general switching type reaching law for discrete time sliding mode control systems. , 2015, , .		0
124	A new reaching law for DSMC systems with constraints. , 2016, , .		0
125	Reaching law based DSMC with higher relative degree sliding variables. , 2018, , .		0
126	New Time-Varying Sliding Surface for Switching Type Quasi-Sliding Mode Control. Energies, 2021, 14, 3811.	1.6	0

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127	Robust Congestion Controller for a Single Virtual Circuit in Connection-Oriented Communication Networks. <i>Mathematical Engineering</i> , 2016, , 31-52.	0.1	0
128	Sliding Mode Data Flow Regulation for Connection-Oriented Networks with Unpredictable Packet Loss Ratio. <i>Mathematics in Industry</i> , 2016, , 675-682.	0.1	0
129	Sliding Mode Congestion Controller for Data Transmission Networks with Unknown and Variable Packet Loss Rates. <i>Studies in Informatics and Control</i> , 2016, 25, .	0.6	0
130	Generalized Sliding Mode Observers for Simultaneous Fault Reconstruction in the Presence of Uncertainty and Disturbance. <i>Energies</i> , 2022, 15, 1411.	1.6	0