Andrzej Bartoszewicz

List of Publications by Year
in descending order

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	Barrier Function Adaptive Nonsingular Terminal Sliding Mode Control Approach for Quad-Rotor Unmanned Aerial Vehicles. Sensors, 2022, 22, 909.	2.1	19
2	IAE Minimization in Sliding Mode Control With Input and Velocity Constraints. IEEE Access, 2022, 10, 28631-28641.	2.6	1
3	Generalized Sliding Mode Observers for Simultaneous Fault Reconstruction in the Presence of Uncertainty and Disturbance. Energies, 2022, 15, 1411.	1.6	0
4	Damping of Subsynchronous Resonance in Utility DFIG-Based Wind Farms Using Wide-Area Fuzzy Control Approach. Energies, 2022, 15, 1787.	1.6	6
5	A Hybrid Predictive Type-3 Fuzzy Control for Time-Delay Multi-Agent Systems. Electronics (Switzerland), 2022, 11, 63.	1.8	8
6	Model Reference DSMC With a Relative Degree Two Switching Variable. IEEE Transactions on Automatic Control, 2021, 66, 1749-1755.	3.6	9
7	Model reference strategy for mismatched disturbance attenuation in relative degree one and two DSMC. Mechanical Systems and Signal Processing, 2021, 149, 107188.	4.4	2
8	A Robust Hâˆž Fault Tolerant Controller for Uncertain Systems Described by Linear Fractional Transformation Model. IEEE Access, 2021, 9, 104749-104760.	2.6	1
9	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
10	Reaching Law Based Sliding Mode Control of Sampled Time Systems. Energies, 2021, 14, 1882.	1.6	2
11	Sliding Mode Control with Minimization of the Regulation Time in the Presence of Control Signal and Velocity Constraints. Energies, 2021, 14, 2887.	1.6	5
12	Zero-Width Quasi-Sliding Mode Band in the Presence of Non-Matched Uncertainties. Energies, 2021, 14, 3011.	1.6	3
13	New Time-Varying Sliding Surface for Switching Type Quasi-Sliding Mode Control. Energies, 2021, 14, 3811.	1.6	0
14	Design and Implementation of Morphed Multi-Rotor Vehicles with Real-Time Obstacle Detection and Sensing System. Sensors, 2021, 21, 6192.	2.1	1
15	Reference Trajectory Based Quasi-Sliding Mode with Event-Triggered Control. Energies, 2021, 14, 7236.	1.6	1
16	A New General Type-2 Fuzzy Predictive Scheme for PID Tuning. Applied Sciences (Switzerland), 2021, 11, 10392.	1.3	27
17	Dependable Sensor Fault Reconstruction in Air-Path System of Heavy-Duty Diesel Engines. Sensors, 2021, 21, 7788.	2.1	3
18	Frequency Regulation System: A Deep Learning Identification, Type-3 Fuzzy Control and LMI Stability Analysis. Energies, 2021, 14, 7801.	1.6	12

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19	Discrete-Time Sliding-Mode Control With a Desired Switching Variable Generator. IEEE Transactions on Automatic Control, 2020, 65, 1807-1814.	3.6	47
20	<scp>Reference</scp> model based discrete time sliding mode control of communication networks. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1739-1750.	2.3	2
21	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
22	Optimal Model Reference Sliding Mode Control of Perishable Inventory Systems. IEEE Transactions on Automation Science and Engineering, 2020, , 1-10.	3.4	4
23	Relative degree one and two sliding variables for multi-input discrete-time systems. , 2019, , .		1
24	Reaching law based DSMC with a reference model. IFAC-PapersOnLine, 2019, 52, 777-782.	0.5	1
25	Sliding mode control of inventory management systems with bounded batch size. Applied Mathematical Modelling, 2019, 66, 296-304.	2.2	11
26	A Reference Trajectory Based Discrete Time Sliding Mode Control Strategy. International Journal of Applied Mathematics and Computer Science, 2019, 29, 517-525.	1.5	9
27	Generalization of Gao's Reaching Law for Higher Relative Degree Sliding Variables. IEEE Transactions on Automatic Control, 2018, 63, 3173-3179.	3.6	43
28	Sliding Mode Control with Time-Varying Switching Hyperplane for Data Transmission Networks. , 2018, , .		1
29	Reaching law based DSMC with higher relative degree sliding variables. , 2018, , .		0
30	Reaching phase elimination in terminal sliding mode control of second order systems. , 2018, , .		2
31	IAE optimal sliding mode control for second order dynamical systems. , 2018, , .		3
32	Terminal sliding mode control of second order systems with velocity constraint. , 2018, , .		4
33	Discrete time sliding mode controllers with relative degree one and two switching variables. Journal of the Franklin Institute, 2018, 355, 6889-6903.	1.9	7
34	Model reference discreteâ€time variable structure control. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1440-1452.	2.3	20
35	Conventional sliding modes in continuous and discrete time domains. , 2017, , .		2
36	A new reaching law based DSMC for inventory management systems. , 2017, , .		2

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37	Inventory management strategies with higher relative degree sliding variables. , 2017, , .		5
38	Application of higher relative degree sliding variables for congestion control in communication networks. , 2017, , .		1
39	Discrete‐Time Sliding Mode Control with Outputs of Relative Degree More than One. , 2017, , .		3
40	Reaching law for DSMC systems with relative degree 2 switching variable. International Journal of Control, 2017, 90, 1626-1638.	1.2	41
41	Sliding Mode Control of Discrete Time Dynamical Systems with State Constraints. Advances in Intelligent Systems and Computing, 2017, , 4-13.	0.5	1
42	Reaching Law Based Discrete Time Sliding Mode Inventory Management Strategy. IEEE Access, 2016, 4, 10051-10058.	2.6	14
43	A new reaching law for DSMC systems with constraints. , 2016, , .		0
44	Improved robustness and performance of discrete time sliding mode control systems. ISA Transactions, 2016, 65, 143-149.	3.1	58
45	Discrete time sliding mode control with reduced switching â€" a new reaching law approach. International Journal of Robust and Nonlinear Control, 2016, 26, 47-68.	2.1	77
46	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
47	Robust Congestion Controller for a Single Virtual Circuit in Connection-Oriented Communication Networks. Mathematical Engineering, 2016, , 31-52.	0.1	0
48	Sliding Mode Data Flow Regulation for Connection-Oriented Networks with Unpredictable Packet Loss Ratio. Mathematics in Industry, 2016, , 675-682.	0.1	0
49	Sliding Mode Congestion Controller for Data Transmission Networks with Unknown and Variable Packet Loss Rates. Studies in Informatics and Control, 2016, 25, .	0.6	0
50	Quasi-Sliding Networked Control of Systems Subject to Unbounded Disturbance with Limited Rate of Change. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	1
51	Automated lumped-element simulation framework for modelling of transient effects in superconducting magnets. , 2015, , .		11
52	Inverse tangent based switching type reaching law for discrete time sliding mode control systems. , 2015, , .		6
53	Hyperbolic tangent based switching reaching law for discrete time sliding mode control of dynamical systems. , 2015, , .		8
54	A general switching type reaching law for discrete time sliding mode control systems. , 2015, , .		0

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55	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
56	Reaching lawâ€"based sliding mode congestion control for communication networks. IET Control Theory and Applications, 2014, 8, 1914-1920.	1.2	46
57	Quasi-sliding mode networked controller for linear discrete time systems subject to disturbance. , 2014, , .		0
58	Inverse tangent reaching law for discrete sliding mode control with application to inventory management. , 2014, , .		2
59	Discrete time sliding mode inventory management — Hyperbolic tangent reaching law based approach. , 2014, , .		3
60	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
61	Modeling and discrete time SMC of inventory systems. , 2014, , .		0
62	Non-switching type reaching law with application to congestion control in connection-oriented communication networks. , 2014, , .		0
63	A new reaching law based sliding mode flow controller for connection-oriented data transmission networks. , 2014, , .		8
64	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
65	LQ Optimal Control of Periodic Review Perishable Inventories with Transportation Losses. Advances in Intelligent Systems and Computing, 2014, , 45-55.	0.5	3
66	An optimal sliding mode congestion controller for connection-oriented communication networks with lossy links. International Journal of Applied Mathematics and Computer Science, 2014, 24, 87-97.	1.5	9
67	Flow Control in Sampled Data Systems. Communications and Control Engineering, 2013, , 289-329.	1.0	0
68	Discrete Sliding-Mode Congestion Control in TCP Networks. Communications and Control Engineering, 2013, , 331-371.	1.0	0
69	Flow Control in a Single-Source Discrete-Time System. Communications and Control Engineering, 2013, , 87-196.	1.0	0
70	Congestion Control in Data Transmission Networks: Historical Perspective. Communications and Control Engineering, 2013, , 9-44.	1.0	2
71	Congestion Control in Data Transmission Networks. Communications and Control Engineering, 2013, , .	1.0	20
72	Flow Control in Continuous-Time Systems. Communications and Control Engineering, 2013, , 61-86.	1.0	0

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73	Flow Control in a Multisource Discrete-Time System. Communications and Control Engineering, 2013, , 197-288.	1.0	0
74	Sliding mode control: Concepts ideas and impressions. , 2013, , .		2
75	Sliding mode control of time delay systems - A non-switching type reaching law approach. , 2013, , .		0
76	Refined reaching laws for sliding mode control of discrete time systems. , 2013, , .		0
77	Variable structure flow controller for connection-oriented communication networks. , 2013, , .		2
78	Fundamentals of Sliding-Mode Controller Design. Communications and Control Engineering, 2013, , 45-60.	1.0	0
79	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
80	Inventory replenishment control: A predictive approach. , 2013, , .		0
81	LQ Optimal Sliding Mode Control of Periodic Review Perishable Inventories with Transportation Losses. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	7
82	New reaching law for quasi-sliding mode control of discrete time systems. , 2013, , .		4
83	Non-switching reaching law for sliding mode control of discrete time systems. , 2013, , .		2
84	Linear quadratic optimal congestion control strategy for connection-oriented networks with lossy links. , 2013, , .		1
85	Dead-beat sliding mode control of perishable inventories with transportation losses and multiple suppliers. , 2013, , .		1
86	Discrete Time Sliding Mode Flow Controllers for Connection-Oriented Networks with Lossy Links. Cybernetics and Information Technologies, 2013, 13, 107-121.	0.4	3
87	LQ optimal and reaching law-based sliding modes for inventory management systems. International Journal of Systems Science, 2012, 43, 105-116.	3.7	27
88	Experimental verification of SMC with moving switching lines applied to hoisting crane vertical motion control. ISA Transactions, 2012, 51, 682-693.	3.1	17
89	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
90	Robust flow controller for a single virtual circuit in connection-oriented networks with lossy links. , 2012, , .		0

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91	Linear-Quadratic Optimal Control of Periodic-Review Perishable Inventory Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1400-1407.	3.2	67
92	LQ optimal sliding-mode supply policy for periodic-review perishable inventory systems. Journal of the Franklin Institute, 2012, 349, 1561-1582.	1.9	38
93	DSM control of inventory systems with deteriorating stock and multiple supply sources. , 2011, , .		0
94	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
95	Experimental Verification of Optimal Sliding Mode Controllers for Hoisting Cranes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11006-11011.	0.4	1
96	Dead-time compensation in continuous-review perishable inventory systems with a remote supply source. Archives of Control Sciences, 2011, 21, .	1.7	3
97	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
98	Linearâ€"quadratic optimal control strategy for periodic-review inventory systems. Automatica, 2010, 46, 1982-1993.	3.0	64
99	Sliding-mode dead-beat control of perishable inventory systems with positive lead-time and uncertain demand. , 2010, , .		0
100	LQ Optimal Sliding Mode Supply Policy for Periodic Review Inventory Systems. IEEE Transactions on Automatic Control, 2010, 55, 269-274.	3.6	57
101	Composite control of periodic-review just-in-time inventory systems with asymmetric costs. , 2010, , .		0
102	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
103	Discrete time congestion controllers for multi-source connection-oriented communication networks. International Journal of Control, 2009, 82, 1237-1252.	1.2	8
104	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
105	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
106	Linear quadratic optimal sliding mode flow control for connectionâ€oriented communication networks. International Journal of Robust and Nonlinear Control, 2009, 19, 442-461.	2.1	28
107	ITAE optimal transient performance in SMC of third order systems with state and input constraints. , 2009, , .		2
108	ITAE optimal sliding mode control of cable suspended loads. , 2009, , .		3

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109	ITAE optimal variable structure control of second order systems with input signal and velocity constraints. Kybernetes, 2009, 38, 1093-1105.	1.2	2
110	Transient Performance Optimization in SMC of Third Order Systems with Velocity and Input Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 689-694.	0.4	1
111	Time-Varying Sliding Modes for the Second Order Systems. Lecture Notes in Control and Information Sciences, 2009, , 17-65.	0.6	5
112	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
113	A comment on the â€˜Robust mixed time-optimal control for third-order systems with model uncertaintyâ€™. International Journal of Systems Science, 2008, 39, 1179-1179.	3.7	0
114	Time-Varying Sliding Plane Design for Congestion Control in Multi-Source Connection-Oriented Communication Networks. , 2008, , .		0
115	Elastic and conventional constraints in sliding mode control of second order system. , 2008, , .		3
116	SMC without the reaching phase â€“ the switching plane design for the third-order system. IET Control Theory and Applications, 2007, 1, 1461-1470.	1.2	46
117	Congestion Control in Multi-Source Communication Networks â€“ a Time-Varying Sampling Period System Case Study. , 2007, , .		0
118	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
119	Sliding Mode Control. International Journal of Adaptive Control and Signal Processing, 2007, 21, 635-637.	2.3	57
120	Switching Line Design for VSC of the Second Order Systems with Conventional and Elastic Constraints. , 2006, , .		0
121	Shifted Switching Plane Design for Third-Order Systems with Elastic and Conventional Input Constraints. Circuits, Systems, and Signal Processing, 2006, 25, 661-684.	1.2	6
122	Nonlinear flow control strategies for connection-oriented communication networks. IET Control Theory and Applications, 2006, 153, 21-28.	1.7	27
123	Optimal design of the shifted switching planes for VSC of a third-order system. Transactions of the Institute of Measurement and Control, 2006, 28, 335-352.	1.1	11
124	A New Procedure of Time-Varying Switching Plane Design. , 2006, , .		2
125	Moving Switching Plane Selection for the Third Order System Subject to Input and Acceleration Constraints. , 2006, , .		1
126	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

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127	Discrete-time quasi-sliding-mode control strategies. IEEE Transactions on Industrial Electronics, 1998, 45, 633-637.	5.2	508
128	Terminally Stable Sliding Mode Control for Second-Order Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 43-48.	0.4	0
129	Time-varying sliding modes for second-order systems. IET Control Theory and Applications, 1996, 143, 455-462.	1.7	122
130	A comment on â€˜A time-varying sliding surface for fast and robust tracking control of second-order uncertain systemsâ€™. Automatica, 1995, 31, 1893-1895.	3.0	96