PrzemysÅ‚aw Ignaciuk

List of Publications by Year
in descending order

85 papers	770 citations	471061 17 h-index	525886 27 g-index
89 all docs	89 docs citations	89 times ranked	255 citing authors

#	Article	IF	Citations
1	Linear–quadratic optimal control strategy for periodic-review inventory systems. Automatica, 2010, 46, 1982-1993.	3.0	64
2	LQ Optimal Sliding Mode Supply Policy for Periodic Review Inventory Systems. IEEE Transactions on Automatic Control, 2010, 55, 269-274.	3.6	57
3	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
4	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
5	Nonlinear Inventory Control With Discrete Sliding Modes in Systems With Uncertain Delay. IEEE Transactions on Industrial Informatics, 2014, 10, 559-568.	7.2	44
6	Discrete-Time Control of Production-Inventory Systems With Deteriorating Stock and Unreliable Supplies. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 338-348.	5.9	42
7	LQ optimal sliding-mode supply policy for periodic-review perishable inventory systems. Journal of the Franklin Institute, 2012, 349, 1561-1582.	1.9	38
8	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
9	LQ Optimal and Robust Control of Perishable Inventory Systems With Multiple Supply Options. IEEE Transactions on Automatic Control, 2013, 58, 2108-2113.	3.6	36
10	Discrete inventory control in systems with perishable goods – a time–delay system perspective. IET Control Theory and Applications, 2014, 8, 11-21.	1.2	31
11	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
12	LQ optimal and reaching law-based sliding modes for inventory management systems. International Journal of Systems Science, 2012, 43, 105-116.	3.7	27
13	Dead-time compensation in continuous-review perishable inventory systems with multiple supply alternatives. Journal of Process Control, 2012, 22, 915-924.	1.7	25
14	Reducing impact of network induced perturbations in remote control systems. Control Engineering Practice, 2016, 55, 127-138.	3.2	23
15	Congestion Control in Data Transmission Networks. Communications and Control Engineering, 2013, , .	1.0	20
16	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
17	Continuous Genetic Algorithms in the Optimization of Logistic Networks: Applicability Assessment and Tuning. Applied Sciences (Switzerland), 2020, 10, 7851.	1.3	17
18	Energy-efficient scheduler for MPTCP data transfer with independent and coupled channels. Computer Communications, 2018, 132, 56-64.	3.1	15

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19	Networked Base-Stock Inventory Control in Complex Distribution Systems. Mathematical Problems in Engineering, 2019, 2019, 1-14.	0.6	13
20	Network nodes play a game â€" a routing alternative in multihop ad-hoc environments. Computer Networks, 2017, 122, 96-104.	3.2	12
21	Discrete-Time Sliding-Mode Controllers for MPTCP Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6029-6039.	5.9	9
22	A green multipath TCP framework for industrial internet of things applications. Computer Networks, 2021, 187, 107831.	3.2	9
23	Discrete time congestion controllers for multi-source connection-oriented communication networks. International Journal of Control, 2009, 82, 1237-1252.	1.2	8
24	Quasi-Soft Variable Structure Control of Discrete-Time Systems With Input Saturation. IEEE Transactions on Control Systems Technology, 2019, 27, 1244-1249.	3.2	7
25	Distributed Order-Up-To Inventory Control in Networked Supply Systems With Delay. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1709-1714.	8.5	7
26	Dynamic modeling and order-up-to inventory management in logistic networks with positive lead time. , 2015, , .		6
27	Continuous Genetic Algorithms as Intelligent Assistance for Resource Distribution in Logistic Systems. Data, 2018, 3, 68.	1.2	6
28	Choosing a Proper Control Strategy for Multipath Transmission in Industry 4.0 Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 3609-3619.	7.2	6
29	Optimization of Mesh-Type Logistic Networks for Achieving Max Service Rate Under Order-Up-To Inventory Policy. Advances in Intelligent Systems and Computing, 2018, , 118-127.	0.5	5
30	MPTCP remote peer control for increasing energy efficiency of downlink transmission. , 2016, , .		4
31	State-Space Modeling and Analysis of Order-up-to Goods Distribution Networks with Variable Demand and Positive Lead Time. Advances in Intelligent Systems and Computing, 2017, , 55-65.	0.5	4
32	Dead-time compensation in continuous-review perishable inventory systems with a remote supply source. Archives of Control Sciences, 2011, 21, .	1.7	3
33	Linear-quadratic optimal control of multi-modal distribution systems with imperfect channels*. International Journal of Production Research, 2022, 60, 5523-5538.	4.9	3
34	Quantifying the Bullwhip Effect in Networked Structures with Nontrivial Topologies. , 2020, , .		3
35	Application of Continuous Genetic Algorithms for Optimization of Logistic Networks Governed by Order-Up-To Inventory Policy. International Journal of New Computer Architectures and Their Applications, 2017, 7, 29-36.	0.2	3
36	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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37	Congestion Control in Data Transmission Networks: Historical Perspective. Communications and Control Engineering, 2013, , 9-44.	1.0	2
38	Approximate Solution of Linear-Quadratic Problem in Discrete-Time Multi-Delay Systems: Derivation and Quality Assessment. IFAC-PapersOnLine, 2015, 48, 97-102.	0.5	2
39	DSM relay control of logistic networks under delayed replenishments and uncertain demand. , 2016, , .		2
40	DARE solutions for LQ optimal and suboptimal control of systems with multiple input–output delays. Journal of the Franklin Institute, 2016, 353, 974-991.	1.9	2
41	Energy efficient MPTCP transmission â€" Scheduler implementation and evaluation. , 2017, , .		2
42	Base-stock distributed inventory management in continuous-review logistic systems â€" Control system perspective. , 2017, , .		2
43	Networked base-stock policy for continuous-review goods distribution systems with uncertain demand. , 2017, , .		2
44	Intelligent Support for Resource Distribution in Logistic Networks Using Continuous-Domain Genetic Algorithms. , 2018, , .		2
45	Influence of Congestion Control Algorithms on Head-of-Line Blocking in MPTCP-based Communication. , 2019, , .		2
46	Evolutionary Adaptation of (r, Q) Inventory Management Policy in Complex Distribution Systems. Lecture Notes in Computer Science, 2020, , 146-157.	1.0	2
47	On Implementation of Energy-Aware MPTCP Scheduler. Advances in Intelligent Systems and Computing, 2018, , 242-251.	0.5	2
48	Bullwhip Effect â€" Supply Chain Stability Examination in the Presence of Demand Uncertainty and Delay. , 2020, , .		2
49	Order-up-to Networked Policy for Periodic-Review Goods Distribution Systems with Delay. , 2015, , .		2
50	Sliding-mode inventory control in systems with fixed order quantity and uncertain demand. , 2011, , .		1
51	Combating the effects of delay in periodic-review perishable inventory systems. , 2013, , .		1
52	Augmented state space approach for solving infinite-horizon linear-quadratic problem in discrete-time systems with mulitple time-delays. , 2015, , .		1
53	Distributed order-up-to inventory management in logistic networks under uncertain demand â€" System modelling and analysis. , 2016, , .		1
54	Dynamic quasi-soft VSC of discrete-time systems with magnitude-constrained inputs. , 2016, , .		1

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55	Energy Efficient Dynamic Load Balancing in Multipath TCP for Mobile Devices. Advances in Intelligent Systems and Computing, 2017, , 187-197.	0.5	1
56	Discrete-Time MPTCP Flow Control for Channels with Diverse Delays and Uncertain Capacity. , 2018, , .		1
57	Minimum Fuel Resource Distribution in Multidimensional Logistic Networks Governed by Base-Stock Inventory Policy. Advances in Intelligent Systems and Computing, 2020, , 1141-1151.	0.5	1
58	Robust Inventory Management under Uncertain Demand and Unreliable Delivery Channels. Advances in Intelligent Systems and Computing, 2014, , 67-76.	0.5	1
59	A Price to Pay for Increased Throughput in MPTCP Transmission of Video Streams. , 2020, , .		1
60	Congestion Control in Multi-Source Communication Networks â€" a Time-Varying Sampling Period System Case Study. , 2007, , .		0
61	Sliding-mode dead-beat control of perishable inventory systems with positive lead-time and uncertain demand. , 2010, , .		0
62	Composite control of periodic-review just-in-time inventory systems with asymmetric costs. , 2010, , .		0
63	DSM control of inventory systems with deteriorating stock and multiple supply sources. , 2011, , .		0
64	Nonlinear inventory control with discrete sliding modes in systems with multiple delayed supply options. , 2013, , .		0
65	Flow Control in Sampled Data Systems. Communications and Control Engineering, 2013, , 289-329.	1.0	0
66	Discrete Sliding-Mode Congestion Control in TCP Networks. Communications and Control Engineering, 2013, , 331-371.	1.0	0
67	Flow Control in a Single-Source Discrete-Time System. Communications and Control Engineering, 2013, , 87-196.	1.0	0
68	Flow Control in Continuous-Time Systems. Communications and Control Engineering, 2013, , 61-86.	1.0	0
69	Flow Control in a Multisource Discrete-Time System. Communications and Control Engineering, 2013, , 197-288.	1.0	0
70	Fundamentals of Sliding-Mode Controller Design. Communications and Control Engineering, 2013, , 45-60.	1.0	0
71	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
72	Finite-horizon linear-quadratic optimal control of discrete-time systems with input delay. , 2014, , .		0

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73	Traffic control under scarce resources in wireless networks - a game-based approach. , 2015, , .		0
74	On LQ optimal control of uncapacitated goods distribution systems with non-negligible transport delay. , 2015, , .		0
75	Predictor-based dynamic soft VSC in time-delay systems with magnitude-constrained input signal. , 2016, , .		0
76	Remote quasi-soft variable structure control of dynamic plants with actuator saturation. , 2016, , .		0
77	Adjustable Sampling Rate â€" An Efficient Way to Reduce the Impact of Network-Induced Uncertainty in Networked Control Systems?. Communications in Computer and Information Science, 2016, , 329-343.	0.4	0
78	Energy Efficient MPTCP Transmission Over Channels with a Common Bottleneck. Communications in Computer and Information Science, 2018, , 40-51.	0.4	0
79	Discrete Sliding-Mode Control of Remote Peer in MPTCP Streaming Applications. , 2019, , .		0
80	Remote Receiver Control in MPTCP Networks in Uncertain Operating Conditions. , 2019, , .		0
81	Backorders management using NSGA-II in complex periodic-review logistic systems. , 2019, , .		0
82	LQ Optimal Multi-Loop Control of Goods Distribution Systems with Multi-Modal Transportation Solutions. , 2019, , .		0
83	Discrete-Time Control of Capacitated Multi-Channel Distribution Systems with Batch Replenishments. , 2019, , .		0
84	Intelligent Planning of Logistic Networks to Counteract Uncertainty Propagation. Lecture Notes in Computer Science, 2021, , 351-364.	1.0	0
85	Bullwhip Effect â€" Logistic Stability Examination in Serial and Arborescent Topologies with Demand Uncertainty and Delay. System Theory, Control and Computing Journal, 2021, 1, 68-80.	0.3	0