Vladimir Vishnevsky

List of Publications by Year
in descending order

80 papers	539 citations	933264 10 h-index	996849 15 g-index
87 all docs	87 docs citations	87 times ranked	262 citing authors

#	Article	IF	Citations
1	The Theory of Queuing Systems with Correlated Flows. , 2020, , .		66
2	Study of Beaconing in Multihop Wireless PAN with Distributed Control. IEEE Transactions on Mobile Computing, 2008, 7, 113-126.	3.9	44
3	A Simple Analytical Model for the Periodic Broadcasting in Vehicular Ad-Hoc Networks. , 2008, , .		43
4	Performance analysis of the queue with gated servicing and adaptive vacations. Performance Evaluation, 2011, 68, 446-462.	0.9	17
5	Redundant queuing system with unreliable servers. , 2014, , .		17
6	Priority Multi-Server Queueing System with Heterogeneous Customers. Mathematics, 2020, 8, 1501.	1.1	17
7	Scalable blind search and broadcasting over Distributed Hash Tables. Computer Communications, 2008, 31, 292-303.	3.1	14
8	Approximate Method to StudyM/G/1-Type Polling System with Adaptive Polling Mechanism. Quality Technology and Quantitative Management, 2012, 9, 211-228.	1.1	13
9	Methods of Performance Evaluation of Broadband Wireless Networks Along the Long Transport Routes. Communications in Computer and Information Science, 2016, , 72-85.	0.4	13
10	Optimal Method for Uplink Transfer of Power and the Design of High-Voltage Cable forÂTethered High-Altitude Unmanned Telecommunication Platforms. Communications in Computer and Information Science, 2017, , 240-247.	0.4	12
11	Tandem Queueing System with Correlated Input and Cross-Traffic. Communications in Computer and Information Science, 2013, , 416-425.	0.4	12
12	Comparative Study of 802.11 DCF and its Modification in the Presence of Noise. Wireless Networks, 2005, 11, 729-740.	2.0	11
13	On a BMAP/G/1 Retrial System with Two Types of Search of Customers from the Orbit. Communications in Computer and Information Science, 2017, , 1-12.	0.4	11
14	Design concepts of an application platform for traffic law enforcement and vehicles registration comprising RFID technology. , 2012, , .		10
15	Analytic Model of a Mesh Topology based on LoRa Technology. , 2020, , .		10
16	Polling Systems and Their Application to Telecommunication Networks. Mathematics, 2021, 9, 117.	1.1	10
17	Experience of Developing a Multifunctional Tethered High-Altitude Unmanned Platform of Long-Term Operation. Lecture Notes in Computer Science, 2019, , 236-244.	1.0	10
18	Multicast QoS Support in IEEE 802.11 WLANs. , 2007, , .		9

#	Article	IF	Citations
19	On the Stationary Distribution of Tandem Queue Consisting of a Finite Number of Stations. Communications in Computer and Information Science, 2012, , 383-392.	0.4	9
20	Analysis of a k-Stage Bulk Service Queuing System with Accessible Batches for Service. Mathematics, 2021, 9, 559.	1.1	8
21	Transient Behavior of the MAP/M/1/N Queuing System. Mathematics, 2021, 9, 2559.	1.1	8
22	Performance Evaluation of the Priority Multi-Server System MMAP/PH/M/N Using Machine Learning Methods. Mathematics, 2021, 9, 3236.	1.1	8
23	Beaconing for MDA Support in IEEE 802.11s Mesh Networks. , 2007, , .		7
24	Architecture of application platform for RFID-enabled traffic law enforcement system. , 2014, , .		7
25	Review of methodology and design of broadband wireless networks with linear topology. Indian Journal of Pure and Applied Mathematics, 2016, 47, 329-342.	0.3	7
26	Analysis of the BMAP/G/1 queue with gated service and adaptive vacations duration. Telecommunication Systems, 2016, 61, 403-415.	1.6	7
27	Analysis of Unreliable Single Server Queueing System with Hot Back-Up Server. Communications in Computer and Information Science, 2015, , 149-161.	0.4	7
28	Analysis of a MAP/M/1/N Queue with Periodic and Non-Periodic Piecewise Constant Input Rate. Mathematics, 2022, 10, 1684.	1.1	7
29	Design and Scheduling in 5G Stationary and Mobile Communication Systems Based on Wireless Millimeter-Wave Mesh Networks. Communications in Computer and Information Science, 2014, , 11-27.	0.4	6
30	The power-series algorithm for two-queue polling system with impatient customers. , 2008, , .		5
31	Markov-modulated continuous time finite Markov chain as the model of hybrid wireless communication channels operation. Automatic Control and Computer Sciences, 2016, 50, 125-132.	0.4	5
32	Retrial BMAP/PH/N Queueing System with a Threshold-Dependent Inter-Retrial Time Distribution. Mathematics, 2022, 10, 269.	1.1	5
33	Tag Routing for Efficient Blind Search in Peer-to-Peer Networks. , 2006, , .		4
34	Queueing Model with Gated Service and Adaptive Vacations. , 2009, , .		4
35	A Novel Approach for Scheduling in STDMA for High-Throughput Backbone Wireless Mesh Networks Operating within 60-80 GHz. , 2010, , .		4
36	Evaluation of the End-to-End Delay of a Multiphase Queuing System Using Artificial Neural Networks. Lecture Notes in Computer Science, 2020, , 631-642.	1.0	4

#	Article	IF	Citations
37	Algorithm of State Stationary Probability Computing for Continuous-Time Finite Markov Chain Modulated by Semi-Markov Process. Communications in Computer and Information Science, 2016, , 167-176.	0.4	4
38	Accurate Mathematical Model of Two-Dimensional Parametric Systems Based on $$2\times 2$$ Matrix. Communications in Computer and Information Science, 2019, , 199-211.	0.4	4
39	Model of Navigation and Control System of an Airborne Mobile Station. Lecture Notes in Computer Science, 2020, , 643-657.	1.0	4
40	Queueing-Inventory with One Essential and m Optional Items with Environment Change Process Forming Correlated Renewal Process (MEP). Mathematics, 2022, 10, 104.	1.1	4
41	Application ofÂMachine Learning Methods toÂSolving Problems ofÂQueuing Theory. Communications in Computer and Information Science, 2022, , 304-316.	0.4	4
42	Unfair Access Problem in Wi-Fi Hot Spots. , 2007, , .		3
43	Applying UHF RFID for Vehicle Identification: Protocol and propagation simulation. , 2017, , .		3
44	Retrial Tandem Queue with BMAP-Input andÂSemi-Markovian Service Process. Communications in Computer and Information Science, 2017, , 159-173.	0.4	3
45	State Reduction in Analysis of a Tandem Queueing System with Correlated Arrivals. Communications in Computer and Information Science, 2017, , 215-230.	0.4	3
46	A Multiphase Queueing Model for Performance Analysis of a Multi-hop IEEE 802.11 Wireless Network with DCF Channel Access. Communications in Computer and Information Science, 2019, , 162-176.	0.4	3
47	Local Hybrid Navigation System ofÂTethered High-Altitude Platform. Lecture Notes in Computer Science, 2021, , 67-79.	1.0	3
48	Using a Machine Learning Approach for Analysis of Polling Systems with Correlated Arrivals. Lecture Notes in Computer Science, 2021, , 336-345.	1.0	3
49	A Multi-Type Queueing Inventory Systemâ€"A Model for Selection and Allocation of Spectra. Mathematics, 2022, 10, 714.	1.1	3
50	Beaconing in distributed controlwireless PAN: problems and solutions. , 0, , .		2
51	Multicast qos support in ieee 802.16. , 2007, , .		2
52	New Aspect of Beaconing in IEEE 802.11s Mesh Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	2
53	Direct transmission protection in IEEE 802.11 networks. , 2008, , .		2
54	Applying graph-theoretic approach for time-frequency resource allocation in 5G MmWave backhaul network. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
55	Estimation of IEEE 802.11 DCF access performance in wireless networks with linear topology using PH service time approximations and MAP input. , 2017, , .		2
56	Queueing System with Alternating Service Rates for Free Space Optics-Radio Hybrid Channel. Lecture Notes in Computer Science, 2010, , 79-90.	1.0	2
57	Analysis and Simulation of UHF RFID Vehicle Identification System. Communications in Computer and Information Science, 2016, , 35-46.	0.4	2
58	On a Problem of Base Stations Optimal Placement in Wireless Networks with Linear Topology. Lecture Notes in Computer Science, 2018, , 505-513.	1.0	2
59	Tandem Queues with Correlated Arrivals and Their Application to System Structure Performance Evaluation. , 2020, , 307-392.		2
60	Structures and Deployments of a Flying Network Using Tethered Multicopters for Emergencies. Lecture Notes in Computer Science, 2020, , 28-38.	1.0	2
61	An Efficient Packet Transmission Scheme for Ultra High Rate WPAN. , 2007, , .		1
62	The power-series algorithm for M/M/1-type polling system with impatient customers. , 2009, , .		1
63	Approximate Analysis for M/G/1-Polling System with Adaptive Polling Mechanism. , 2009, , .		1
64	Performance Analysis of Unreliable Queue with Back-Up Server. Communications in Computer and Information Science, 2015, , 226-239.	0.4	1
65	Methods for architecture synthesis of broadband wireless networks with linear topology. , 2015, , .		1
66	A Retrial Queueing System with Alternating Inter-retrial Time Distribution. Lecture Notes in Computer Science, 2018, , 302-315.	1.0	1
67	A stochastic model for the analysis of session and power switching effects on the performance of UHF RFID system with mobile tags. , 2018, , .		1
68	A Dual Tandem Queue with Multi-server Stations and Losses. Communications in Computer and Information Science, 2016, , 316-325.	0.4	1
69	High-Capacity Photon Switching Systems Based on the Two-Stage $$256\imes 256$$ Switch. Communications in Computer and Information Science, 2020, , 57-69.	0.4	1
70	Duplex cyclic polling system to serve mixed queues. , 2009, , .		0
71	GWM-MAC protocol for high-throughput backbone wireless mesh networks operating within 60-80 GHz. , 2010, , .		0
72	Analysis of Resource Sharing Between MBB and MTC Sessions with Data Aggregation Using Matrix-Analytic Methods and Simulation. Lecture Notes in Computer Science, 2018, , 170-183.	1.0	0

#	Article	IF	Citations
73	Reliability of a k-out-of-n System with a Repair Facility â€" Essential and Inessential Services. Communications in Computer and Information Science, 2016, , 89-97.	0.4	0
74	Model of Optical Non-blocking Information Processing System for Next-Generation Telecommunication Networks. Communications in Computer and Information Science, 2019, , 188-198.	0.4	0
75	Mathematical Models and Methods of Investigation of Hybrid Communication Networks Based on Laser and Radio Technologies. , 2020, , 241-306.		0
76	Reserve Navigation System of Tether Powered Unmanned Aerial Platform in Conditions of Turbulent Atmosphere. Communications in Computer and Information Science, 2020, , 117-128.	0.4	0
77	The Analytical Model of Six-Dimensional Linear Dynamic Systems with Arbitrary Piecewise-Constant Parameters. Lecture Notes in Computer Science, 2020, , 617-630.	1.0	0
78	Queueing System with Two Unreliable Servers and Backup Server as a Model of Hybrid Communication System. Lecture Notes in Computer Science, 2020, , 176-195.	1.0	0
79	Recent Advances inÂScheduling Theory andÂApplications inÂRobotics andÂCommunications. Lecture Notes in Computer Science, 2021, , 14-23.	1.0	0
80	Investigation of Wireless Hybrid Communication System Reliability Under External Influences. Lecture Notes in Computer Science, 2021, , 42-54.	1.0	0