Sergey A Dudin

List of Publications by Year in descending order

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687363 752698 66 546 13 20 citations h-index g-index papers 66 66 66 200 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Priority queueing system with many types of requests and restricted processor sharing. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 12651-12662.	4.9	7
2	Self-Service System with Rating Dependent Arrivals. Mathematics, 2022, 10, 297.	2.2	8
3	Mathematical Model of Operation of a Cell of a Mobile Communication Network With Adaptive Modulation Schemes and Handover of Mobile Users. IEEE Access, 2021, 9, 106933-106946.	4.2	10
4	Improved Priority Scheme for Unreliable Queueing System. Communications in Computer and Information Science, 2021, , 16-30.	0.5	0
5	Analysis of Single-Server Multi-Class Queue with Unreliable Service, Batch Correlated Arrivals, Customers Impatience, and Dynamical Change of Priorities. Mathematics, 2021, 9, 1257.	2.2	6
6	Vacation Queueing Model for Performance Evaluation of Multiple Access Information Transmission Systems without Transmission Interruption. Mathematics, 2021, 9, 1508.	2.2	0
7	Analysis of Multi-Server Queue with Self-Sustained Servers. Mathematics, 2021, 9, 2134.	2.2	2
8	Analysis ofÂMulti-server Loss Queueing System withÂtheÂBatch Marked Markov Arrival Process. Lecture Notes in Computer Science, 2021, , 182-195.	1.3	0
9	Analysis of a retrial queue with group service of impatient customers. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2591-2599.	4.9	22
10	Effective algorithm for computation of the stationary distribution of multi-dimensional level-dependent Markov chains with upper block-Hessenberg structure of the generator. Journal of Computational and Applied Mathematics, 2020, 366, 112425.	2.0	13
11	Mathematical Models for the Operation of a Cell With Bandwidth Sharing and Moving Users. IEEE Transactions on Wireless Communications, 2020, 19, 744-755.	9.2	11
12	A Priority Queue with Many Customer Types, Correlated Arrivals and Changing Priorities. Mathematics, 2020, 8, 1292.	2.2	8
13	Improvement of the Fairness of Non-Preemptive Priorities in the Transmission of Heterogeneous Traffic. Mathematics, 2020, 8, 929.	2.2	9
14	Optimization of Signals Processing in Nodes of Sensor Network with Energy Harvesting and Expenditure for Admission and Transmission. Lecture Notes in Computer Science, 2020, , 406-421.	1.3	0
15	Analysis of a Semi-Open Queuing Network with a State Dependent Marked Markovian Arrival Process, Customers Retrials and Impatience. Mathematics, 2019, 7, 715.	2.2	3
16	Queueing Network with Moving Servers as a Model of Car Sharing Systems. Mathematics, 2019, 7, 825.	2.2	2
17	Retrial multi-server queuing system with PHF service time distribution as a model of a channel with unreliable transmission of information. Applied Mathematical Modelling, 2019, 65, 676-695.	4.2	40
18	Optimal Control by the Queue with Rate and Quality of Service Depending on the Amount of Harvested Energy as a Model of the Node of Wireless Sensor Network. Lecture Notes in Computer Science, 2019, , 165-178.	1.3	1

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19	Analysis of a semi-open queueing network with Markovian arrival process. Performance Evaluation, 2018, 120, 1-19.	1.2	12
20	Multi-threshold control by a single-server queuing model with a service rate depending on the amount of harvested energy. Performance Evaluation, 2018, 127-128, 1-20.	1.2	2
21	Analysis of queueing model with processor sharing discipline and customers impatience. Operations Research Perspectives, 2018, 5, 245-255.	2.1	12
22	Performance evaluation of a wireless sensor node with energy harvesting and varying conditions of operation., 2017, , .		4
23	Analysis of Multi-Server Queue With Spatial Generation and Location-Dependent Service Rate of Customers as a Cell Operation Model. IEEE Transactions on Communications, 2017, , 1-1.	7.8	4
24	Analysis of a Retrial Queue with Limited Processor Sharing Operating in the Random Environment. Lecture Notes in Computer Science, 2017, , 38-49.	1.3	7
25	Analysis of a Wireless Sensor Node with Varying Rates of Energy Harvesting and Consumption. Lecture Notes in Computer Science, 2017, , 172-182.	1.3	3
26	Analysis Of Unreliable Multi-Server Queueing System With Breakdowns Spread And Quarantine. , 2017, , .		1
27	Multi-server queueing system with a generalized phase-type service time distribution as a model of call center with a call-back option. Annals of Operations Research, 2016, 239, 401-428.	4.1	12
28	Analysis of Single-Server Queue with Phase-Type Service and Energy Harvesting. Mathematical Problems in Engineering, 2016, 2016, 1-16.	1.1	6
29	Analysis of a Priority Queue with Phase-Type Service and Failures. International Journal of Stochastic Analysis, 2016, 2016, 1-11.	0.3	10
30	Analysis and optimization of Guard Channel Policy with buffering in cellular mobile networks. Computer Networks, 2016, 107, 258-269.	5.1	7
31	Optimization of the service strategy in a queueing system with energy harvesting and customers' impatience. International Journal of Applied Mathematics and Computer Science, 2016, 26, 367-378.	1.5	6
32	Hysteresis control by the number of active servers in queueing system <mml:math altimg="si42.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>M</mml:mi><mml:mi><mml:mi>A</mml:mi><mml:mi> cmml:mi> cmml</mml:mi></mml:mi></mml:math>	ml: 11 2 ml:mo>/ </td <td>10 mml:mo><mr< td=""></mr<></td>	10 mml:mo> <mr< td=""></mr<>
33	Analysis of BMAP ^(r) /M ^(r) /N ^(r) Type Queueing System Operating in Random Environment. Journal of Korean Institute of Industrial Engineers, 2016, 42, 30-37.	0.1	1
34	Analysis of Two-Server Queueing Model with Phase-Type Service Time Distribution and Common Phases of Service. Communications in Computer and Information Science, 2016, , 19-29.	0.5	0
35	Priority retrial queueing model operating in random environment with varying number and reservation of servers. Applied Mathematics and Computation, 2015, 269, 674-690.	2,2	14
36	Multi-server Queueing System $MAP/M/N^{(r)}/infty \ MAP/M/N(r)/a^z$ Operating in Random Environment. Communications in Computer and Information Science, 2015, , 306-315.	0.5	1

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37	Analysis of Multiserver Queueing System with Opportunistic Occupation and Reservation of Servers. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	8
38	<mml:math id="M1" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>M</mml:mi> <mml:mi> A</mml:mi> > Mml:mi> <mml:mi> P</mml:mi> <mml:mi> <mml:mi> N System with Absolute Priority and Reservation of Servers. Mathematical Problems in Engineering, 2014, 2014, 1-15.</mml:mi></mml:mi></mml:math>	1 <td>.i><mml:mi>A</mml:mi></td>	.i> <mml:mi>A</mml:mi>
39	Tandem queueing system with infinite and finite intermediate buffers and generalized phase-type service time distribution. European Journal of Operational Research, 2014, 235, 170-179.	5.7	27
40	Analysis of an $\langle i\rangle$ MMAP/PH $\langle sub\rangle$ 1 $\langle sub\rangle$ 9 PH $\langle sub\rangle$ 2 $\langle sub\rangle$ 1/N/â^ž $\langle i\rangle$ 9 queueing system operating in a random environment. International Journal of Applied Mathematics and Computer Science, 2014, 24, 485-501.	1.5	17
41	Help desk center operating model as a two-phase queueing system. Problems of Information Transmission, 2013, 49, 58-72.	0.5	3
42	MMAP M N queueing system with impatient heterogeneous customers as a model of a contact center. Computers and Operations Research, 2013, 40, 1790-1803.	4.0	15
43	Retrial queuing system with Markovian arrival flow and phase-type service time distribution. Computers and Industrial Engineering, 2013, 66, 360-373.	6.3	31
44	Tandem queueing system with impatient customers as a model of call center with Interactive Voice Response. Performance Evaluation, 2013, 70, 440-453.	1.2	20
45	overflow= scroll > <mml:mrow> <mml:mi mathvariant="italic"> MAP</mml:mi> <mml:mo stretchy="false"> </mml:mo> <mml:mi mathvariant="italic"> PH < /mml:mi> <mml:mo stretchy="false"> </mml:mo> <mml:mi> N < /mml:mi> <mml:mo stretchy="false"> </mml:mo></mml:mi> <mml:mi> N < /mml:mi> <mml:mo> + </mml:mo> <mml:mi> R < /mml:mi> </mml:mi></mml:mi></mml:mi></mml:mrow>	4.2 <td>47 ath></td>	47 ath>
46	Queueing System with Heterogeneous Customers as a Model of a Call Center with a Call-Back for Lost Customers. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	6
47	Queueing System MAP/M/N/N + K Operating in Random Environment as a Model of Call Center. Communications in Computer and Information Science, 2013, , 83-92.	0.5	6
48	A Tandem Queueing System with Batch Session Arrivals. Communications in Computer and Information Science, 2013, , 59-68.	0.5	1
49	Socio-behavioral Scheduling of Time-Frequency Resources for Modern Mobile Operators. Communications in Computer and Information Science, 2013, , 69-82.	0.5	2
50	Queueing System MAP \mid PH \mid N \mid R with Session Arrivals Operating in Random Environment. Communications in Computer and Information Science, 2013, , 406-415.	0.5	2
51	A multi-server queueing model with retrial connection arrivals as a model for optimisation of the traffic control. International Journal of Systems Science, 2012, 43, 1555-1567.	5. 5	3
52	Tandem queueing system MAP M N K - N → ● M R ∞ with impatient customers as a model of remote technical support. , 2012, , .		0
53	Generalized survivability analysis of systems with propagated failures. Computers and Mathematics With Applications, 2012, 64, 3777-3791.	2.7	6
54	A queueing system with batch arrival of customers in sessions. Computers and Industrial Engineering, 2012, 62, 890-897.	6.3	10

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55	Queueing System MAP/M/N as a Model of Call Center with Call-Back Option. Lecture Notes in Computer Science, 2012, , 1-15.	1.3	5
56	Call center operation model as a MAP/PH/N/Râ $^{\circ}$ N system with impatient customers. Problems of Information Transmission, 2011, 47, 364-377.	0.5	15
57	Priority tandem queueing model with admission control. Computers and Industrial Engineering, 2011, 61, 131-140.	6.3	16
58	The servicing system MAP(PH)+MAP/PH/N/R as a model of optimizing an HTTP server with blockings. Automation and Remote Control, 2010, 71, 28-38.	0.8	2
59	The MAP + MAP/PH/1/N queuing system with single and batch arrivals of customers. Automation and Remote Control, 2009, 70, 872-884.	0.8	3
60	The queue with flows of customers as a model for traffic control in telecommunication networks. Performance Evaluation, 2009, 66, 564-579.	1.2	18
61	Queueing system with a phase process of query arrival in session. Automatic Control and Computer Sciences, 2009, 43, 113-122.	0.8	O
62	A two-phase queuing system with access control and correlated arrival processes. Automatic Control and Computer Sciences, 2009, 43, 295-302.	0.8	0
63	The MAP/M/N retrial queueing system with time-phased batch arrivals. Problems of Information Transmission, 2009, 45, 270-281.	0.5	7
64	Retrial queueing model with time-phased batch arrivals. , 2008, , .		1
65	An Erlang Loss Queue with Time-Phased Batch Arrivals as a Model for Traffic Control in Communication Networks. Mathematical Problems in Engineering, 2008, 2008, 1-14.	1.1	0
66	Queueing Model with Time-Phased Batch Arrivals. , 2007, , 719-730.		6