Irina Kochetkova

List of Publications by Year
in descending order

73 papers	689 citations	687363 13 h-index	677142 22 g-index
77 all docs	77 docs citations	77 times ranked	592 citing authors

#	Article	IF	Citations
1	Convergence Bounds for Limited Processor Sharing Queue with Impatience for Analyzing Non-Stationary File Transfer in Wireless Network. Mathematics, 2022, 10, 30.	2.2	1
2	Reliability Analysis of a Load-Sharing k-out-of-n System Due to Its Components' Failure. Mathematics, 2022, 10, 2457.	2.2	4
3	Queuing System with Unreliable Servers and Inhomogeneous Intensities for Analyzing the Impact of Non-Stationarity to Performance Measures of Wireless Network under Licensed Shared Access. Mathematics, 2020, 8, 800.	2.2	7
4	Queuing System with Two Types of Customers and Dynamic Change of a Priority. Mathematics, 2020, 8, 824.	2.2	16
5	Algorithmic Analysis of a Two-Class Multi-server Heterogeneous Queueing System with a Controllable Cross-connectivity. Lecture Notes in Computer Science, 2020, , 1-17.	1.3	0
6	Analyzing the Effectiveness of Dynamic Network Slicing Procedure in 5G Network by Queuing and Simulation Models. Lecture Notes in Computer Science, 2020, , 71-85.	1.3	3
7	The Fourier Series Model for Predicting Sapflow Density Flux Based on TreeTalker Monitoring System. Lecture Notes in Computer Science, 2020, , 198-209.	1.3	2
8	Analysis of machine-type communication data transmission by multicasting technology in 5G wireless networks. AIP Conference Proceedings, 2019, , .	0.4	3
9	Analytical model for performance analysis of video flow transmission to multicast subgroups in 5G wireless networks. AIP Conference Proceedings, 2019, , .	0.4	0
10	Latency and energy-efficient multi-hop routing protocol for unmanned aerial vehicle networks. International Journal of Distributed Sensor Networks, 2019, 15, 155014771986639.	2.2	14
11	Performance Assessment of QoS-Aware LTE Sessions Offloading Onto LAA/WiFi Systems. IEEE Access, 2019, 7, 36300-36311.	4.2	16
12	Model Mediation to Overcome Light Limitations—Toward a Secure Tactile Internet System. Journal of Sensor and Actuator Networks, 2019, 8, 6.	3.9	13
13	Secure and Reliable IoT Networks Using Fog Computing with Software-Defined Networking and Blockchain. Journal of Sensor and Actuator Networks, 2019, 8, 15.	3.9	103
14	Regularized computation of oscillatory integrals with stationary points. Journal of Computational Science, 2018, 26, 22-27.	2.9	3
15	Modeling Transmit Power Reduction for a Typical Cell With Licensed Shared Access Capabilities. IEEE Transactions on Vehicular Technology, 2018, 67, 5505-5509.	6.3	7
16	Performance Measures Analysis of Admission Control Scheme Model for Wireless Network, Described by a Queuing System Operating in Random Environment. , 2018, , .		2
17	Discrete time markov chain model for analyzing characteristics of RACH procedure under massive machine type communications. , 2018, , .		0
18	On the Bounds for a Two-Dimensional Birth-Death Process with Catastrophes. Mathematics, 2018, 6, 80.	2.2	2

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19	Key solutions for light limitations. , 2018, , .		1
20	IoT-fog based system structure with SDN enabled. , 2018, , .		12
21	Upper bounds on the rate of convergence for constant retrial rate queueing model with two servers. Statistical Papers, 2018, 59, 1271-1282.	1.2	0
22	Dynamic Resource Sharing in 5G with LSA: Criteria-Based Management Framework. Wireless Communications and Mobile Computing, 2018, 2018, 1-12.	1.2	15
23	Development of Intelligent Core Network for Tactile Internet and Future Smart Systems. Journal of Sensor and Actuator Networks, 2018, 7, 1.	3.9	85
24	The Application of Helmholtz Decomposition Method to Investigation of Multicore Fibers and Their Application in Next-Generation Communications Systems. Lecture Notes in Computer Science, 2018, , 469-480.	1.3	1
25	Analytical Models for Schedule-Based License Assisted Access (LAA) LTE Systems. Lecture Notes in Computer Science, 2018, , 210-223.	1.3	3
26	One-dimensional "atom" with zero-range potential perturbed by finite sequence of zero-duration laser pulses. , 2018, , .		0
27	Field calculation for the horn waveguide transition in the single-mode approximation of the cross-sections method. Proceedings of SPIE, 2017, , .	0.8	3
28	Mathematical synthesis of the thickness profile of the waveguide LÃ¼neburg lens using the adiabatic waveguide modes method. Proceedings of SPIE, 2017, , .	0.8	0
29	Discrete Time Bulk Service Queue for Analyzing LTE Packet Scheduling for V2X Communications. Lecture Notes in Computer Science, 2017, , 395-407.	1.3	0
30	OpenFlow switch buffer configuration method. , 2017, , .		5
31	Intelligent core network for Tactile Internet system. , 2017, , .		27
32	Optimal subgroup configuration for multicast services over 5G-satellite systems. , 2017, , .		12
33	Modeling Unreliable Operation of mmWave-Based Data Sessions in Mission-Critical PPDR Services. IEEE Access, 2017, 5, 20536-20544.	4.2	7
34	Flexible Spectrum Management in a Smart City Within Licensed Shared Access Framework. IEEE Access, 2017, 5, 22252-22261.	4.2	18
35	Analytical model for multicast subgrouping in 5G-mobile eMBMS environment. , 2017, , .		3
36	Analyzing impact of path loss models on probability characteristics of wireless network with licensed shared access framework. , 2017, , .		2

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37	Asymptotic Analysis Of Markovian Retrial Queue With Two-Way Communication Under Low Rate Of Retrials Condition. , 2017, , .		16
38	Analysis of Admission Control Schemes Models for Wireless Network Under Licensed Shared Access Framework. Lecture Notes in Computer Science, 2017, , 536-549.	1.3	0
39	Analyzing of Licensed Shared Access Scheme Model with Service Bit Rate Degradation in 3GPP Network. Communications in Computer and Information Science, 2017, , 231-242.	0.5	0
40	PROBABILITY MODEL FOR ANALYZING LICENSED SHARED ACCESS WITH ADAPTIVE POWER CONTROL IN A WIRELESS NETWORK. Informatika I Ee Primeneniya, 2017, , .	0.1	1
41	Synthesis of the Thickness Profile of the Waveguide Layer of the Thin Film Generalized Waveguide Luneburg Lens. EPJ Web of Conferences, 2016, 108, 02011.	0.3	1
42	Experimental Evaluation of Dynamic Licensed Shared Access Operation in Live 3GPP LTE System. , 2016, , .		6
43	Modeling the utilization of a multi-tenant band in 3GPP LTE system with Licensed Shared Access. , 2016, , .		7
44	Modeling and analyzing licensed shared access operation for 5G network as an inhomogeneous queue with catastrophes. , 2016, , .		12
45	Queuing Model with Unreliable Servers for Limit Power Policy Within Licensed Shared Access Framework. Lecture Notes in Computer Science, 2016, , 404-413.	1.3	5
46	Analyzing Mean Bit Rate of Multicast Video Conference in LTE Network with Adaptive Radio Admission Control Scheme*. Journal of Mathematical Sciences, 2016, 218, 257-268.	0.4	12
47	Busy Period Analysis of a Queueing System with Breakdowns and Its Application to Wireless Network Under Licensed Shared Access Regime. Lecture Notes in Computer Science, 2016, , 426-439.	1.3	2
48	Sojourn Time Analysis for Processor Sharing Loss System with Unreliable Server. Lecture Notes in Computer Science, 2016, , 284-297.	1.3	14
49	Baseline Analytical Model for Machine-Type Communications Over 3GPP RACH in LTE-Advanced Networks. Communications in Computer and Information Science, 2016, , 203-213.	0.5	4
50	Stochastization Of One-Step Processes In The Occupations Number Representation. , 2016, , .		7
51	Numerical and Analytical Modeling of Guided Modes of a Planar Gradient Waveguide. Communications in Computer and Information Science, 2016, , 471-482.	0.5	0
52	Sojourn Time Analysis for Processor Sharing Loss Queuing System with Service Interruptions and MAP Arrivals. Communications in Computer and Information Science, 2016, , 406-417.	0.5	3
53	Service failure and interruption probability analysis for Licensed Shared Access regulatory framework. , 2015, , .		17
54	Model for spin waves and lasing in monolayer graphene films. Proceedings of SPIE, 2015, , .	0.8	1

#	ARTICLE	IF	CITATIONS
55	Threshold-based queuing system for performance analysis of cloud computing system with dynamic scaling. AIP Conference Proceedings, 2015, , .	0.4	4
56	Approximating performance measures of radio admission control model for non real-time services with maximum bit rates in LTE. AIP Conference Proceedings, 2015, , .	0.4	2
57	Modelling and Performance Analysis of Multicast File Repair in 3GPP LTE Networks. Lecture Notes in Computer Science, 2015, , 383-392.	1.3	1
58	On Capturing Spatial Diversity of Joint M2M/H2H Dynamic Uplink Transmissions in 3GPP LTE Cellular System. Lecture Notes in Computer Science, 2015, , 407-421.	1.3	7
59	Analytical Modelling And Simulation Of Admission Control Scheme For Non-Real Time Services In LTE Networks. , 2015, , .		1
60	On the benefits of 5G wireless technology for future mobile cloud computing. , 2014, , .		15
61	NONLINEAR SPIN WAVES IN GRAPHENE STRUCTURES. Spin, 2014, 04, 1450005.	1.3	1
62	Modeling unreliable LSA operation in 3GPP LTE cellular networks. , 2014, , .		16
63	Modelling and performance analysis of pre-emption based radio admission control scheme for video conferencing over LTE. , 2014, , .		10
64	Analysis of an admission model in a fourth generation mobile network with triple play traffic. Automatic Control and Computer Sciences, 2013, 47, 202-210.	0.8	11
65	Modelling and Analysing a Dynamic Resource Allocation Scheme for M2M Traffic in LTE Networks. Lecture Notes in Computer Science, 2013, , 420-426.	1.3	20
66	A model for analysing impact of frequency reuse on inter-cell interference in LTE network. , 2012, , .		4
67	Modelling a Radio Admission Control Scheme for Video Telephony Service in Wireless Networks. Lecture Notes in Computer Science, 2012, , 208-215.	1.3	12
68	Approximating Performance Measures of a Triple Play Loss Network Model. Lecture Notes in Computer Science, 2011, , 360-369.	1.3	5
69	Simulation of guided modes (eigenmodes) and synthesis of a thin-film generalised waveguide Luneburg lens in the zero-order vector approximation. Quantum Electronics, 2010, 40, 830-836.	1.0	13
70	Recursive computation for a multi-rate model with elastic traffic and minimum rate guarantees. , 2010, , .		4
71	Performance Measures Computation for a Single Link Loss Network with Unicast and Multicast Traffics. Lecture Notes in Computer Science, 2010, , 256-265.	1.3	7
72	A new stage in mathematical teletraffic theory. Automation and Remote Control, 2009, 70, 1954-1964.	0.8	27

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73	Pâ€59: Dielectric Constants of Display Optical Components. Digest of Technical Papers SID International Symposium, 2007, 38, 410-413.	0.3	0