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	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
2	Development of Intelligent Core Network for Tactile Internet and Future Smart Systems. Journal of Sensor and Actuator Networks, 2018, 7, 1.	3.9	85
3	A new stage in mathematical teletraffic theory. Automation and Remote Control, 2009, 70, 1954-1964.	0.8	27
4	Intelligent core network for Tactile Internet system. , 2017, , .		27
5	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
6	Flexible Spectrum Management in a Smart City Within Licensed Shared Access Framework. IEEE Access, 2017, 5, 22252-22261.	4.2	18
7	Service failure and interruption probability analysis for Licensed Shared Access regulatory framework. , 2015, , .		17
8	Modeling unreliable LSA operation in 3GPP LTE cellular networks. , 2014, , .		16
9	Performance Assessment of QoS-Aware LTE Sessions Offloading Onto LAA/WiFi Systems. IEEE Access, 2019, 7, 36300-36311.	4.2	16
10	Queuing System with Two Types of Customers and Dynamic Change of a Priority. Mathematics, 2020, 8, 824.	2.2	16
11	Asymptotic Analysis Of Markovian Retrial Queue With Two-Way Communication Under Low Rate Of Retrials Condition. , 2017, , .		16
12	On the benefits of 5G wireless technology for future mobile cloud computing. , 2014, , .		15
13	Dynamic Resource Sharing in 5G with LSA: Criteria-Based Management Framework. Wireless Communications and Mobile Computing, 2018, 2018, 1-12.	1.2	15
14	Sojourn Time Analysis for Processor Sharing Loss System with Unreliable Server. Lecture Notes in Computer Science, 2016, , 284-297.	1.3	14
15	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
16	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
17	Model Mediation to Overcome Light Limitations—Toward a Secure Tactile Internet System. Journal of Sensor and Actuator Networks, 2019, 8, 6.	3.9	13
18	Modelling a Radio Admission Control Scheme for Video Telephony Service in Wireless Networks. Lecture Notes in Computer Science, 2012, , 208-215.	1.3	12

#	ARTICLE	IF	CITATIONS
19	Modeling and analyzing licensed shared access operation for 5G network as an inhomogeneous queue with catastrophes. , 2016, , .		12
20	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
21	Optimal subgroup configuration for multicast services over 5G-satellite systems. , 2017, , .		12
22	IoT-fog based system structure with SDN enabled. , 2018, , .		12
23	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
24	Modelling and performance analysis of pre-emption based radio admission control scheme for video conferencing over LTE. , 2014, , .		10
25	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
26	Modeling the utilization of a multi-tenant band in 3GPP LTE system with Licensed Shared Access. , 2016, , .		7
27	Modeling Unreliable Operation of mmWave-Based Data Sessions in Mission-Critical PPDR Services. IEEE Access, 2017, 5, 20536-20544.	4.2	7
28	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
29	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
30	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
31	Stochastization Of One-Step Processes In The Occupations Number Representation. , 2016, , .		7
32	Experimental Evaluation of Dynamic Licensed Shared Access Operation in Live 3GPP LTE System. , 2016, , .		6
33	Approximating Performance Measures of a Triple Play Loss Network Model. Lecture Notes in Computer Science, 2011, , 360-369.	1.3	5
34	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
35	OpenFlow switch buffer configuration method. , 2017, , .		5
36	Recursive computation for a multi-rate model with elastic traffic and minimum rate guarantees. , 2010, , .		4

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37	A model for analysing impact of frequency reuse on inter-cell interference in LTE network. , 2012, , .		4
38	Threshold-based queuing system for performance analysis of cloud computing system with dynamic scaling. AIP Conference Proceedings, 2015, , .	0.4	4
39	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
40	Reliability Analysis of a Load-Sharing k-out-of-n System Due to Its Componentsâ€™ Failure. Mathematics, 2022, 10, 2457.	2.2	4
41	Field calculation for the horn waveguide transition in the single-mode approximation of the cross-sections method. Proceedings of SPIE, 2017, , .	0.8	3
42	Analytical model for multicast subgrouping in 5G-mobile eMBMS environment. , 2017, , .		3
43	Regularized computation of oscillatory integrals with stationary points. Journal of Computational Science, 2018, 26, 22-27.	2.9	3
44	Analysis of machine-type communication data transmission by multicasting technology in 5G wireless networks. AIP Conference Proceedings, 2019, , .	0.4	3
45	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
46	Analytical Models for Schedule-Based License Assisted Access (LAA) LTE Systems. Lecture Notes in Computer Science, 2018, , 210-223.	1.3	3
47	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
48	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
49	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
50	Analyzing impact of path loss models on probability characteristics of wireless network with licensed shared access framework. , 2017, , .		2
51	Performance Measures Analysis of Admission Control Scheme Model for Wireless Network, Described by a Queuing System Operating in Random Environment. , 2018, , .		2
52	On the Bounds for a Two-Dimensional Birth-Death Process with Catastrophes. Mathematics, 2018, 6, 80.	2.2	2
53	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
54	NONLINEAR SPIN WAVES IN GRAPHENE STRUCTURES. Spin, 2014, 04, 1450005.	1.3	1

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55	Model for spin waves and lasing in monolayer graphene films. Proceedings of SPIE, 2015, , .	0.8	1
56	Modelling and Performance Analysis of Multicast File Repair in 3GPP LTE Networks. Lecture Notes in Computer Science, 2015, , 383-392.	1.3	1
57	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
58	Key solutions for light limitations. , 2018, , .		1
59	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
60	Analytical Modelling And Simulation Of Admission Control Scheme For Non-Real Time Services In LTE Networks. , 2015, , .		1
61	PROBABILITY MODEL FOR ANALYZING LICENSED SHARED ACCESS WITH ADAPTIVE POWER CONTROL IN A WIRELESS NETWORK. Informatika I Ee Primeneniya, 2017, , .	0.1	1
62	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
63	Pâ€59: Dielectric Constants of Display Optical Components. Digest of Technical Papers SID International Symposium, 2007, 38, 410-413.	0.3	0
64	Mathematical synthesis of the thickness profile of the waveguide LÃ¼neburg lens using the adiabatic waveguide modes method. Proceedings of SPIE, 2017, , .	0.8	0
65	Discrete Time Bulk Service Queue for Analyzing LTE Packet Scheduling for V2X Communications. Lecture Notes in Computer Science, 2017, , 395-407.	1.3	0
66	Discrete time markov chain model for analyzing characteristics of RACH procedure under massive machine type communications. , 2018, , .		0
67	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
68	Analytical model for performance analysis of video flow transmission to multicast subgroups in 5G wireless networks. AIP Conference Proceedings, 2019, , .	0.4	0
69	Numerical and Analytical Modeling of Guided Modes of a Planar Gradient Waveguide. Communications in Computer and Information Science, 2016, , 471-482.	0.5	0
70	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
71	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
72	One-dimensional "atom" with zero-range potential perturbed by finite sequence of zero-duration laser pulses. , 2018, , .		0

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73	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