

# Piotr Leszek Zwierzykowski

## List of Publications by Year in descending order

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67  
papers

563  
citations

932766

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839053

18  
g-index

74  
all docs

74  
docs citations

74  
times ranked

223  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Multi-Service Switching Networks With Multicast Connections. IEEE Access, 2022, 10, 5359-5377.	2.6	4
2	Editorsâ€™ Note on the Special Section. Journal of Telecommunications and Information Technology, 2021, 2, 77-78.	0.3	0
3	Modelling and Optimization of Multi-Service Optical Switching Networks with Threshold Management Mechanisms. Electronics (Switzerland), 2021, 10, 1515.	1.8	9
4	Determination of Traffic Characteristics of Elastic Optical Networks Nodes with Reservation Mechanisms. Electronics (Switzerland), 2021, 10, 1853.	1.8	8
5	Simulation Study of Routing Protocols for Wireless Mesh Networks. Advances in Intelligent Systems and Computing, 2020, , 231-238.	0.5	0
6	Traffic Modeling for Industrial Internet of Things (IIoT) Networks. Advances in Intelligent Systems and Computing, 2020, , 264-271.	0.5	1
7	Modelling of Switching Networks with Multi-service Sources and Multicast Connections in the Last Stage. Advances in Intelligent Systems and Computing, 2020, , 272-278.	0.5	0
8	Simulations of the MAC Layer in the LoRaWAN Networks. Journal of Telecommunications and Information Technology, 2020, 2, 22-27.	0.3	2
9	Slicing in Modern Cellular Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	0.8	0
10	Comparison of Multicast Algorithm Evaluation Results in Low and High Multicast Saturation Environments. Journal of Telecommunications and Information Technology, 2019, 3, 3-7.	0.3	0
11	DIANA: A Machine Learning Mechanism for Adjusting the TDD Uplink-Downlink Configuration in XG-PON-LTE Systems. Mobile Information Systems, 2017, 2017, 1-15.	0.4	15
12	Design, Dimensioning, and Optimization of 4G/5G Wireless Communication Networks. Mobile Information Systems, 2017, 2017, 1-2.	0.4	5
13	Analysis of Routing Protocols Metrics for Wireless Mesh Networks. Advances in Intelligent Systems and Computing, 2017, , 177-186.	0.5	1
14	Queuing Model of Wireless Access System. Advances in Intelligent Systems and Computing, 2017, , 175-185.	0.5	0
15	The Impact of Selected Parameters on the Performance of Routing Protocols in Wireless Sensor Networks. Image Processing & Communications, 2017, 22, 57-62.	0.3	1
16	Comparative analysis of routing protocols for wireless mesh networks. , 2016, , .		9
17	Blocking probability in switching networks with multi-service sources and multicast traffic. , 2016, , .		6
18	Application of Real Time Operating System in the Internet of Things. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Queuing Model of the Access System in the Packet Network. Communications in Computer and Information Science, 2016, , 283-293.	0.4	1
20	Modelling of the access part of a multi-service mobile network with service priorities. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	24
21	Editorial: Special Issue on Photonic and RF Communications Systems. IET Circuits, Devices and Systems, 2014, 8, 331-333.	0.9	0
22	Modelling of the LTE radio interface for NRT traffic. , 2014, , .		2
23	Lightweight PIMâ€”a new multicast routing protocol. International Journal of Communication Systems, 2014, 27, 1441-1458.	1.6	6
24	A new model of the soft handover mechanism in the UMTS network. , 2014, , .		6
25	Quality of multicast trees in ad-hoc networks with topology control. , 2014, , .		3
26	Topology Properties of Ad-Hoc Networks with Topology Control. Communications in Computer and Information Science, 2014, , 89-98.	0.4	1
27	Rendezvous point based approach to the multi-constrained multicast routing problem. AEU - International Journal of Electronics and Communications, 2014, 68, 561-564.	1.7	5
28	An Algorithm for Finding Shortest Path Tree Using Ant Colony Optimization Metaheuristic. Advances in Intelligent Systems and Computing, 2014, , 317-326.	0.5	13
29	Comparison of Different Path Composition Approaches to Multicast Optimization. Advances in Intelligent Systems and Computing, 2014, , 345-352.	0.5	0
30	How to Simulate and Evaluate Multicast Routing Algorithms. , 2014, , 229-264.		3
31	Analytical model of the multi-service cellular network servicing multicast connections. Telecommunication Systems, 2013, 52, 1091.	1.6	7
32	Traffic Engineering for Multicast Connections in Multiservice Cellular Networks. IEEE Transactions on Industrial Informatics, 2013, 9, 262-270.	7.2	39
33	Metrics in routing protocol for wireless mesh networks. Image Processing & Communications, 2013, 18, 7-20.	0.3	2
34	Shortest Path Problem Solving Based on Ant Colony Optimization Metaheuristic. Image Processing & Communications, 2012, 17, 7-17.	0.3	22
35	Routing and control plane in the Parallel Internet IPv6 QoS. , 2012, , .		4
36	The evaluation of multicast routing algorithms with delay constraints in mesh networks. , 2012, , .		8

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37	Lagrangian Relaxation and Linear Intersection Based QoS Routing Algorithm. International Journal of Electronics and Telecommunications, 2012, 58, 307-314.	0.5	11
38	Analytical Model of the Single Threshold Mechanism with Hysteresis for Multi-Service Networks. IEICE Transactions on Communications, 2012, E95-B, 120-132.	0.4	45
39	Geographic Dijkstra-Based Multicast Algorithm for Wireless Sensor Networks. Image Processing & Communications, 2012, 17, 33-46.	0.3	2
40	Dijkstra-based localized multicast routing in Wireless Sensor Networks. , 2012, , .		26
41	Model of the Threshold Mechanism with Double Hysteresis for Multi-service Networks. Communications in Computer and Information Science, 2012, , 299-313.	0.4	3
42	The Evaluation of Unconstrained Multicast Routing Algorithms in Ad-Hoc Networks. Communications in Computer and Information Science, 2012, , 344-351.	0.4	7
43	Lagrangian relaxation in the multicriterial routing. , 2011, , .		9
44	Multicast Connections in Mobile Networks with Embedded Threshold Mechanism. Communications in Computer and Information Science, 2011, , 407-416.	0.4	8
45	Model of the cellular network servicing multicast connections in lub and WCDMA resources. , 2010, , .		3
46	Multicast Routing Algorithm for packet networks with the application of the Lagrange Relaxation. , 2010, , .		7
47	Blocking Probability Calculation for Cellular Systems with WCDMA Radio Interface Servicing PCT1 and PCT2 Multirate Traffic. IEICE Transactions on Communications, 2009, E92-B, 1156-1165.	0.4	39
48	Analysis of the Influence of Group Members Arrangement on the Multicast Tree Cost. , 2009, , .		9
49	On the methodology for the evaluation of unconstrained multicast routing algorithms. , 2009, , .		1
50	Modelling of the WCDMA Interface in the UMTS Network with Soft Handoff Mechanism. , 2009, , .		24
51	Modelling of virtual circuit switching nodes with multicast connections. European Transactions on Telecommunications, 2009, 20, 123-137.	1.2	15
52	Analytical Model of the lub Interface Carrying HSDPA Traffic in the UMTS Network. Lecture Notes in Computer Science, 2009, , 536-539.	1.0	6
53	WCDMA interface in UMTS network carrying a mixture of multi-rate traffic with different priorities. , 2009, , .		8
54	Analytical Model of Traffic Compression in the UMTS Network. Lecture Notes in Computer Science, 2009, , 79-93.	1.0	14

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55	Analytical Model of the Soft Handoff Mechanism in the UMTS Network. Lecture Notes in Computer Science, 2009, , 170-182.	1.0	3
56	Analytical Model of the WCDMA Radio Interface in UMTS Network with User Differentiation. , 2009, , .		6
57	A new delay-constrained multicast routing algorithm for packet networks. , 2009, , .		2
58	Validation of PIM DM and PIM SM protocols in the NS2 network simulator. , 2009, , .		3
59	The analytical model of the WCDMA interface with priorities in the UMTS network. , 2008, , .		3
60	Performance of Fast Multicast Algorithms in Real Networks. , 2007, , .		9
61	Heuristic Algorithm for Multicast Connections in Packet Networks. , 2007, , .		5
62	Efficiency Analysis of Multicast Routing Algorithms in Large Networks. , 2007, , .		13
63	Blocking Probability Calculation in Virtual Circuit Switching Node with Finite Source Population and Multicast Connections. , 2006, , .		1
64	Point-to-group blocking in the switching networks with unicast and multicast switching. Performance Evaluation, 2002, 48, 247-265.	0.9	11
65	Point to point blocking probability in the switching networks with unicast and multicast traffic streams. , 0, , .		1
66	Virtual Circuit Switching Node with Bandwidth Reservation and Multicast Connections. , 0, , .		0
67	Uplink Blocking Probability Calculation for Cellular Systems with WCDMA Radio Interface, Finite Source Population and Differently Loaded Neighbouring Cells. , 0, , .		20