

Tadeusz Czachorski

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

429
citations

840585

11
h-index

996849

15
g-index

73
all docs

73
docs citations

73
times ranked

140
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance evaluation of fork and join synchronization primitives. Acta Informatica, 1987, 24, 525-553.	0.5	39
2	The Drop-From-Front Strategy in AQM. Lecture Notes in Computer Science, 2007, , 61-72.	1.0	19
3	Security for Internet of Things: The SerIoT Project. , 2018, , .		18
4	The Impact of Self-similarity on Traffic Shaping in Wireless LAN. Lecture Notes in Computer Science, 2008, , 156-168.	1.0	14
5	The use of a non-integer order PI controller with an active queue management mechanism. International Journal of Applied Mathematics and Computer Science, 2016, 26, 777-789.	1.5	14
6	Internet Traffic Source Based on Hidden Markov Model. Lecture Notes in Computer Science, 2011, , 395-404.	1.0	12
7	A Few Investigations of Long-Range Dependence in Network Traffic. , 2014, , 137-144.		12
8	Time-Dependent Performance of a Multi-Hop Software Defined Network. Applied Sciences (Switzerland), 2021, 11, 2469.	1.3	11
9	Estimating the Intensity of Long-Range Dependence in Real and Synthetic Traffic Traces. Communications in Computer and Information Science, 2015, , 11-22.	0.4	11
10	Self-similarity Traffic and AQM Mechanism Based on Non-integer Order $PI^{\alpha}D^{\eta}$ Controller. Communications in Computer and Information Science, 2017, , 336-350.	0.4	11
11	Comparison of AQM Control Systems with the Use of Fluid Flow Approximation. Communications in Computer and Information Science, 2012, , 82-90.	0.4	11
12	Fluid Flow Analysis of RED Algorithm with Modified Weighted Moving Average. Communications in Computer and Information Science, 2013, , 50-58.	0.4	11
13	Diffusion Approximation Model of Multiserver Stations with Losses. Electronic Notes in Theoretical Computer Science, 2009, 232, 125-143.	0.9	10
14	The Influence of the Traffic Self-similarity on the Choice of the Non-integer Order PI^{α} Controller Parameters. Communications in Computer and Information Science, 2018, , 76-83.	0.4	10
15	Modeling Packet Traffic with the Use of Superpositions of Two-State MMPPs. Communications in Computer and Information Science, 2014, , 24-36.	0.4	10
16	Implementation of modified AQM mechanisms in IP routers. Journal of Communications Software and Systems, 2017, 4, 22.	0.6	10
17	A diffusion approximation model for wireless networks based on IEEE 802.11 standard. Computer Communications, 2010, 33, S86-S92.	3.1	8
18	The AQM Dropping Packet Probability Function Based on Non-integer Order $PI^{\alpha}D^{\eta}PI^{\beta}$ Controller. Lecture Notes in Electrical Engineering, 2019, , 36-48.	0.3	8

#	ARTICLE	IF	CITATIONS
19	Transient Behaviour of a Network Router. , 2020, , .		8
20	A Study of IP Router Queues with the Use of Markov Models. Communications in Computer and Information Science, 2016, , 294-305.	0.4	8
21	Stability and Dynamics of TCP-NCR(DCR) Protocol in Presence of UDP Flows. , 2006, , 241-254.		8
22	Diffusion Analysis Improves Scalability of IoT Networks to Mitigate the Massive Access Problem. , 2021, , .		8
23	Comparison of CHOKe and gCHOKe Active Queues Management Algorithms with the Use of Fluid Flow Approximation. Communications in Computer and Information Science, 2013, , 363-371.	0.4	7
24	Analytical and Numerical Means to Model Transient States in Computer Networks. Communications in Computer and Information Science, 2013, , 426-435.	0.4	7
25	Transient States of Priority Queues - A Diffusion Approximation Study. , 2009, , .		6
26	GPU Accelerated Non-integer Order $\pi^{\alpha} D^{\eta} \pi^{\pm 1} D^{\pm 2}$ Controller Used as AQM Mechanism. Communications in Computer and Information Science, 2018, , 286-299.	0.4	6
27	Combined diffusion approximation simulation model of AQM's transient behavior. Computer Communications, 2021, 166, 40-48.	3.1	6
28	AQM Mechanism with the Dropping Packet Function Based on the Answer of Several π^{α} Controllers. Communications in Computer and Information Science, 2019, , 400-412.	0.4	6
29	Queueing Models for Performance Evaluation of Computer Networks Transient State Analysis. Springer Proceedings in Mathematics and Statistics, 2015, , 51-80.	0.1	6
30	The Fluid Flow Approximation of the TCP Vegas and Reno Congestion Control Mechanism. Communications in Computer and Information Science, 2016, , 193-200.	0.4	5
31	Modelling Dynamics of TCP Flows in Very Large Network Topologies. Lecture Notes in Electrical Engineering, 2016, , 251-259.	0.3	5
32	European Cybersecurity Research and the SerIoT Project. Communications in Computer and Information Science, 2018, , 166-173.	0.4	5
33	Self-Similar Markovian Sources. Applied Sciences (Switzerland), 2020, 10, 3727.	1.3	5
34	A Numerical Comparison of Diffusion and Fluid-Flow Approximations Used in Modelling Transient States of TCP/IP Networks. Communications in Computer and Information Science, 2014, , 213-222.	0.4	5
35	On Stochastic Models of Internet Traffic. Communications in Computer and Information Science, 2015, , 289-303.	0.4	5
36	Multichannel Diffusion Approximation Models for the Evaluation of Multichannel Communication Networks. Lecture Notes in Computer Science, 2019, , 43-57.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Diffusion Approximation Models for Cloud Computations with Task Migrations. , 2019, , .		4
38	Performance Analysis of Packet Aggregation Mechanisms and Their Applications in Access (e.g., IoT,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf .	2.1	4
39	Packet loss analysis in optical packet-switched networks with limited deflection routing. Photonic Network Communications, 2008, 16, 253-261.	1.4	3
40	Transient states analysis — diffusion approximation as an alternative to Markov models, fluid-flow approximation and simulation. , 2009, , .		3
41	Approximate Analytical Performance Evaluation of Synchronous Bufferless Optical Packet-Switched Networks. Journal of Optical Communications and Networking, 2011, 3, 806.	3.3	3
42	Diffusion Approximation Model of TCP NewReno Congestion Control Mechanism. SN Computer Science, 2020, 1, 1.	2.3	3
43	Diffusion Model of a Non-Integer Order PI ³ Controller with TCP/UDP Streams. Entropy, 2021, 23, 619.	1.1	3
44	AQM Mechanism with Neuron Tuning Parameters. Lecture Notes in Computer Science, 2020, , 299-311.	1.0	3
45	Traffic Engineering: Erlang and Engset Models Revisited with Diffusion Approximation. , 2014, , 249-256.		3
46	Delays in IP Routers, a Markov Model. Communications in Computer and Information Science, 2016, , 185-192.	0.4	3
47	A Queueing Model of the Edge Node in IP over All-Optical Networks. Communications in Computer and Information Science, 2018, , 258-271.	0.4	3
48	An Analysis of the Extracted Parts of Opte Internet Topology. Communications in Computer and Information Science, 2015, , 371-381.	0.4	3
49	Priority disciplines - a diffusion approach. , 2008, , .		2
50	Modelling TCP Connection in WiMAX Network Using Fluid Flow Approximation. , 2011, , .		2
51	Performance Evaluation of the Packet Aggregation Mechanism of an N-GREEN Metro Network Node. Lecture Notes in Computer Science, 2021, , 62-78.	1.0	2
52	Diffusion Model of Preemptive-Resume Priority Systems and Its Application to Performance Evaluation of SDN Switches. Sensors, 2021, 21, 5042.	2.1	2
53	Performance of a Buffer Between Electronic and All-Optical Networks, Diffusion Approximation Model. Communications in Computer and Information Science, 2018, , 68-75.	0.4	2
54	A Contribution to the Fair Scheduling for the TCP and UDP Streams. Communications in Computer and Information Science, 2010, , 207-216.	0.4	2

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55	The Impact of the Degree of Self-Similarity on the NLREDwM Mechanism with Drop from Front Strategy. Communications in Computer and Information Science, 2016, , 192-203.	0.4	2
56	Transient states of priority queues - QoS issues in wireless networks via diffusion approximation. , 2009, , .		1
57	Fluid flow approximation model of TCP connection on WiMAX link with UGS scheduler. , 2009, , .		1
58	Queueing Models of Traffic Control and Performance Evaluation in Large Internet Topologies. , 2018, , .		1
59	Software Defined Network Dynamics via Diffusions. Lecture Notes in Computer Science, 2021, , 29-47.	1.0	1
60	Diffusion Model of RED Control Mechanism. Lecture Notes in Computer Science, 2001, , 107-116.	1.0	1
61	An Energy Saving Solution in Integrated Access Networks. Communications in Computer and Information Science, 2015, , 222-231.	0.4	1
62	Performance Modelling of Transmissions in Very Large Network Topologies. Communications in Computer and Information Science, 2017, , 49-62.	0.4	1
63	Modelling Transient States in Queueing Models of Computer Networks: A Few Practical Issues. Communications in Computer and Information Science, 2014, , 58-72.	0.4	1
64	Some models for developmental systems Part XIV. Parallelism with applications to developmental systems and to queueing systems. International Journal of Systems Science, 1995, 26, 1041-1051.	3.7	0
65	Performance Evaluation of a Bufferless Packet-Switched Node. , 2007, , .		0
66	Hidden Markov Models in Long Range Dependence Traffic Modelling. Communications in Computer and Information Science, 2017, , 75-86.	0.4	0
67	A Queueing Model of an Insurance Database Interactive System, Comparison of Modelling Methods. Advances in Intelligent Systems and Computing, 2018, , 525-534.	0.5	0
68	Fluid-Flow Approximation in the Analysis of Vast Energy-Aware Networks. Mathematics, 2021, 9, 3279.	1.1	0