

Tadeusz Czachorski

List of Publications by Year in descending order

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68
papers

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73
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73
docs citations

73
times ranked

140
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Combined diffusion approximation simulation model of AQM's transient behavior. Computer Communications, 2021, 166, 40-48. | 3.1 | 6 |
| 2 | 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 |
| 3 | Software Defined Network Dynamics via Diffusions. Lecture Notes in Computer Science, 2021, , 29-47. | 1.0 | 1 |
| 4 | Time-Dependent Performance of a Multi-Hop Software Defined Network. Applied Sciences (Switzerland), 2021, 11, 2469. | 1.3 | 11 |
| 5 | Diffusion Model of a Non-Integer Order PI ³ Controller with TCP/UDP Streams. Entropy, 2021, 23, 619. | 1.1 | 3 |
| 6 | 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 |
| 7 | Diffusion Model of Preemptive-Resume Priority Systems and Its Application to Performance Evaluation of SDN Switches. Sensors, 2021, 21, 5042. | 2.1 | 2 |
| 8 | Diffusion Analysis Improves Scalability of IoT Networks to Mitigate the Massive Access Problem. , 2021, , , | | 8 |
| 9 | Fluid-Flow Approximation in the Analysis of Vast Energy-Aware Networks. Mathematics, 2021, 9, 3279. | 1.1 | 0 |
| 10 | Diffusion Approximation Model of TCP NewReno Congestion Control Mechanism. SN Computer Science, 2020, 1, 1. | 2.3 | 3 |
| 11 | Transient Behaviour of a Network Router. , 2020, , , | | 8 |
| 12 | Self-Similar Markovian Sources. Applied Sciences (Switzerland), 2020, 10, 3727. | 1.3 | 5 |
| 13 | AQM Mechanism with Neuron Tuning Parameters. Lecture Notes in Computer Science, 2020, , 299-311. | 1.0 | 3 |
| 14 | The AQM Dropping Packet Probability Function Based on Non-integer Order $\pi^{\alpha} D^{\eta} \pi^{\pm} D^{\eta}$ Controller. Lecture Notes in Electrical Engineering, 2019, , 36-48. | 0.3 | 8 |
| 15 | Diffusion Approximation Models for Cloud Computations with Task Migrations. , 2019, , , | | 4 |
| 16 | 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 |
| 17 | Multichannel Diffusion Approximation Models for the Evaluation of Multichannel Communication Networks. Lecture Notes in Computer Science, 2019, , 43-57. | 1.0 | 5 |
| 18 | Security for Internet of Things: The SerIoT Project. , 2018, , , | | 18 |

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| 19 | Queueing Models of Traffic Control and Performance Evaluation in Large Internet Topologies. , 2018, , | | 1 |
| 20 | European Cybersecurity Research and the SerIoT Project. Communications in Computer and Information Science, 2018, , 166-173. | 0.4 | 5 |
| 21 | GPU Accelerated Non-integer Order $PI^{\alpha}D^{\eta}$ Controller Used as AQM Mechanism. Communications in Computer and Information Science, 2018, , 286-299. | 0.4 | 6 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | Performance Modelling of Transmissions in Very Large Network Topologies. Communications in Computer and Information Science, 2017, , 49-62. | 0.4 | 1 |
| 28 | Implementation of modified AQM mechanisms in IP routers. Journal of Communications Software and Systems, 2017, 4, 22. | 0.6 | 10 |
| 29 | Hidden Markov Models in Long Range Dependence Traffic Modelling. Communications in Computer and Information Science, 2017, , 75-86. | 0.4 | 0 |
| 30 | 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 |
| 31 | 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 |
| 32 | Modelling Dynamics of TCP Flows in Very Large Network Topologies. Lecture Notes in Electrical Engineering, 2016, , 251-259. | 0.3 | 5 |
| 33 | A Study of IP Router Queues with the Use of Markov Models. Communications in Computer and Information Science, 2016, , 294-305. | 0.4 | 8 |
| 34 | Delays in IP Routers, a Markov Model. Communications in Computer and Information Science, 2016, , 185-192. | 0.4 | 3 |
| 35 | 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 |
| 36 | Queueing Models for Performance Evaluation of Computer Networks – Transient State Analysis. Springer Proceedings in Mathematics and Statistics, 2015, , 51-80. | 0.1 | 6 |

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| 37 | 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 |
| 38 | An Energy Saving Solution in Integrated Access Networks. Communications in Computer and Information Science, 2015, , 222-231. | 0.4 | 1 |
| 39 | On Stochastic Models of Internet Traffic. Communications in Computer and Information Science, 2015, , 289-303. | 0.4 | 5 |
| 40 | An Analysis of the Extracted Parts of Opte Internet Topology. Communications in Computer and Information Science, 2015, , 371-381. | 0.4 | 3 |
| 41 | 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 |
| 42 | Modeling Packet Traffic with the Use of Superpositions of Two-State MMPPs. Communications in Computer and Information Science, 2014, , 24-36. | 0.4 | 10 |
| 43 | A Few Investigations of Long-Range Dependence in Network Traffic. , 2014, , 137-144. | | 12 |
| 44 | Traffic Engineering: Erlang and Engset Models Revisited with Diffusion Approximation. , 2014, , 249-256. | | 3 |
| 45 | 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 |
| 46 | Fluid Flow Analysis of RED Algorithm with Modified Weighted Moving Average. Communications in Computer and Information Science, 2013, , 50-58. | 0.4 | 11 |
| 47 | 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 |
| 48 | Analytical and Numerical Means to Model Transient States in Computer Networks. Communications in Computer and Information Science, 2013, , 426-435. | 0.4 | 7 |
| 49 | Comparison of AQM Control Systems with the Use of Fluid Flow Approximation. Communications in Computer and Information Science, 2012, , 82-90. | 0.4 | 11 |
| 50 | Modelling TCP Connection in WiMAX Network Using Fluid Flow Approximation. , 2011, , . | | 2 |
| 51 | Internet Traffic Source Based on Hidden Markov Model. Lecture Notes in Computer Science, 2011, , 395-404. | 1.0 | 12 |
| 52 | Approximate Analytical Performance Evaluation of Synchronous Bufferless Optical Packet-Switched Networks. Journal of Optical Communications and Networking, 2011, 3, 806. | 3.3 | 3 |
| 53 | A diffusion approximation model for wireless networks based on IEEE 802.11 standard. Computer Communications, 2010, 33, S86-S92. | 3.1 | 8 |
| 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 | Transient states of priority queues - QoS issues in wireless networks via diffusion approximation. , 2009, , . | | 1 |
| 56 | Fluid flow approximation model of TCP connection on WiMAX link with UGS scheduler. , 2009, , . | | 1 |
| 57 | Transient States of Priority Queues - A Diffusion Approximation Study. , 2009, , . | | 6 |
| 58 | Diffusion Approximation Model of Multiserver Stations with Losses. Electronic Notes in Theoretical Computer Science, 2009, 232, 125-143. | 0.9 | 10 |
| 59 | Transient states analysis — diffusion approximation as an alternative to Markov models, fluid-flow approximation and simulation. , 2009, , . | | 3 |
| 60 | Packet loss analysis in optical packet-switched networks with limited deflection routing. Photonic Network Communications, 2008, 16, 253-261. | 1.4 | 3 |
| 61 | The Impact of Self-similarity on Traffic Shaping in Wireless LAN. Lecture Notes in Computer Science, 2008, , 156-168. | 1.0 | 14 |
| 62 | Priority disciplines - a diffusion approach. , 2008, , . | | 2 |
| 63 | Performance Evaluation of a Bufferless Packet-Switched Node. , 2007, , . | | 0 |
| 64 | The Drop-From-Front Strategy in AQM. Lecture Notes in Computer Science, 2007, , 61-72. | 1.0 | 19 |
| 65 | Stability and Dynamics of TCP-NCR(DCR) Protocol in Presence of UDP Flows. , 2006, , 241-254. | | 8 |
| 66 | Diffusion Model of RED Control Mechanism. Lecture Notes in Computer Science, 2001, , 107-116. | 1.0 | 1 |
| 67 | 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 |
| 68 | Performance evaluation of fork and join synchronization primitives. Acta Informatica, 1987, 24, 525-553. | 0.5 | 39 |