

# Evgeny Khorov

## List of Publications by Year in descending order

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137  
papers

2,015  
citations

623734

14  
h-index

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35  
g-index

140  
all docs

140  
docs citations

140  
times ranked

1395  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A Tutorial on IEEE 802.11ax High Efficiency WLANs. IEEE Communications Surveys and Tutorials, 2019, 21, 197-216.  | 39.4 | 336       |
| 2  | A survey on IEEE 802.11ah: An enabling networking technology for smart cities. Computer Communications, 2015, 58, 53-69.                                      | 5.1  | 274       |
| 3  | Current Status and Directions of IEEE 802.11be, the Future Wi-Fi 7. IEEE Access, 2020, 8, 88664-88688.  | 4.2  | 147       |
| 4  | On the Limits of LoRaWAN Channel Access. , 2016, , .  |      | 131       |
| 5  | Mathematical model of LoRaWAN channel access with capture effect. , 2017, , .   |      | 59        |
| 6  | Real-Time Station Grouping under Dynamic Traffic for IEEE 802.11ah. Sensors, 2017, 17, 1559.  | 3.8  | 51        |
| 7  | OFDMA Uplink Scheduling in IEEE 802.11ax Networks. , 2018, , .  |      | 44        |
| 8  | Mathematical model of LoRaWAN channel access. , 2017, , .   |      | 43        |
| 9  | Modelling machine type communication in IEEE 802.11ah networks. , 2015, , .   |      | 34        |
| 10 | Enabling the Internet of Things With Wi-Fi Halowâ€™Performance Evaluation of the Restricted Access Window. IEEE Access, 2019, 7, 127402-127415.               | 4.2  | 31        |
| 11 | Prototyping and Experimental Study of Non-Orthogonal Multiple Access in Wi-Fi Networks. IEEE Network, 2020, 34, 210-217.                                      | 6.9  | 29        |
| 12 | Several EDCA parameter sets for improving channel access in IEEE 802.11ax networks. , 2016, , .   |      | 23        |
| 13 | IEEE 802.11ax uplink scheduler to minimize, delay: A classic problem with new constraints. , 2017, , .  |      | 22        |
| 14 | LoRaWAN Modeling and MCS Allocation to Satisfy Heterogeneous QoS Requirements. Sensors, 2019, 19, 4204.   | 3.8  | 22        |
| 15 | A Framework to Maximize the Capacity of 5G Systems for Ultra-Reliable Low-Latency Communications. IEEE Transactions on Mobile Computing, 2021, 20, 2111-2123. | 5.8  | 22        |
| 16 | Conservative Link Adaptation for Ultra Reliable Low Latency Communications. , 2019, , .   |      | 21        |
| 17 | OFDMA Resource Allocation for Real-Time Applications in IEEE 802.11ax Networks. , 2019, , .   |      | 21        |
| 18 | ARBAT: A flexible network architecture for QoE-aware communications in 5G systems. Computer Networks, 2018, 147, 262-279.                                     | 5.1  | 20        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Coexistence of Wi-Fi and LTE-LAA Networks: Open Issues. Journal of Communications Technology and Electronics, 2018, 63, 1530-1537.                       | 0.5 | 19        |
| 20 | Radio resource and traffic management for ultra-reliable low latency communications. , 2018, , .   |     | 19        |
| 21 | Cost-Effective V2X Task Offloading in MEC-Assisted Intelligent Transportation Systems. IEEE Access, 2020, 8, 169010-169023.                              | 4.2 | 19        |
| 22 | IEEE 802.11ax: How to Build High Efficiency WLANs. , 2015, , .   |     | 18        |
| 23 | NOMA Testbed on Wi-Fi. , 2018, , .   |     | 18        |
| 24 | Rate Control With Spatial Reuse for Wi-Fi 6 Dense Deployments. IEEE Access, 2020, 8, 168898-168909.  | 4.2 | 17        |
| 25 | Accurate Energy Modeling and Characterization of IEEE 802.11ah RAW and TWT. Sensors, 2019, 19, 2614.   | 3.8 | 16        |
| 26 | Analytical model of batch flow multihop transmission in wireless networks with channel reservations. Automation and Remote Control, 2015, 76, 1179-1192. | 0.8 | 15        |
| 27 | Analytical model of IEEE 802.11s MCCAbased streaming in the presence of noise. Performance Evaluation Review, 2011, 39, 38-40.                           | 0.6 | 14        |
| 28 | xStream: A New Platform Enabling Communication Between Applications and the 5G Network. , 2018, , .  |     | 14        |
| 29 | Two-Slot Based Model of the IEEE 802.11ah Restricted Access Window with Enabled Transmissions Crossing Slot Boundaries. , 2018, , .                      |     | 14        |
| 30 | Enabling Massive Real-Time Applications in IEEE 802.11be Networks. , 2019, , .   |     | 14        |
| 31 | Enabling real-time applications in Wi-Fi networks. International Journal of Distributed Sensor Networks, 2019, 15, 155014771984531.                      | 2.2 | 14        |
| 32 | CR-LBT: Listen-Before-Talk With Collision Resolution for 5G NR-U Networks. IEEE Transactions on Mobile Computing, 2022, 21, 3138-3149.                   | 5.8 | 14        |
| 33 | Adaptive Cloud-Based Extended Reality: Modeling and Optimization. IEEE Access, 2021, 9, 35287-35299.   | 4.2 | 14        |
| 34 | A Study of Channel Bonding in IEEE 802.11bd Networks. IEEE Access, 2022, 10, 25514-25533.  | 4.2 | 14        |
| 35 | Improving efficiency of heterogeneous Wi-Fi networks with joint usage of TIM segmentation and restricted access window. , 2017, , .                      |     | 13        |
| 36 | Fast and Reliable Alert Delivery in Mission-Critical Wi-Fi HaLow Sensor Networks. IEEE Access, 2020, 8, 14302-14313.                                     | 4.2 | 13        |

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|----|--|------|-----------|
| 37 | SEBRA: SAND-enabled bitrate and resource allocation algorithm for network-assisted video streaming. , 2017, , .  |      | 12        |
| 38 | Testbed to Study the Capture Effect: Can We Rely on this Effect in Modern Wi-Fi Networks. , 2018, , .  |      | 12        |
| 39 | Resource Allocation for Machine-Type Communication of Energy-Harvesting Devices in Wi-Fi HaLow Networks. Sensors, 2020, 20, 2449.  | 3.8  | 12        |
| 40 | Flexibility of Routing Framework Architecture in IEEE 802.11s Mesh Networks. , 2011, , .   |      | 11        |
| 41 | The study of the distributed control method to hasten link set-up in IEEE 802.11ah networks. , 2016, , .   |      | 11        |
| 42 | Fast centralized authentication in Wi-Fi HaLow networks. , 2017, , .   |      | 11        |
| 43 | What Is the Fastest Way to Connect Stations to a Wi-Fi HaLow Network?. Sensors, 2018, 18, 2744.  | 3.8  | 10        |
| 44 | Modeling of Real-Time Multimedia Streaming in Wi-Fi Networks With Periodic Reservations. IEEE Access, 2020, 8, 55633-55653.  | 4.2  | 10        |
| 45 | Mathematical model for scheduling in IEEE 802.11ad networks. , 2016, , .   |      | 9         |
| 46 | Clock Drift Impact on Target Wake Time in IEEE 802.11ax/ah Networks. , 2018, , .   |      | 9         |
| 47 | IEEE 802.11ba “Extremely Low Power Wi-Fi for Massive Internet of Things” Challenges, Open Issues, Performance Evaluation. , 2019, , .  |      | 9         |
| 48 | New Collision Detection Method for Fair LTE-LAA and Wi-Fi Coexistence. , 2019, , .   |      | 9         |
| 49 | On the Joint Usage of Target Wake Time and 802.11ba Wake-Up Radio. IEEE Access, 2020, 8, 221061-221076.  | 4.2  | 9         |
| 50 | IEEE 802.11ax OFDMA Resource Allocation with Frequency-Selective Fading. Sensors, 2021, 21, 6099.  | 3.8  | 9         |
| 51 | Radio resource scheduling for low-latency communications in LTE and beyond. , 2017, , .  |      | 8         |
| 52 | Flexible Multiplexing of Grant-Free URLLC and eMBB in Uplink. , 2020, , .  |      | 8         |
| 53 | A Phase Noise Resistant Constellation Rotation Method and Its Experimental Validation for NOMA Wi-Fi. IEEE Journal on Selected Areas in Communications, 2022, 40, 1346-1354. | 14.0 | 8         |
| 54 | QoS support for bursty traffic in noisy channel via periodic reservations. , 2014, , .   |      | 7         |

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|----|---|-----|-----------|
| 55 | Will MCCA revive wireless multihop networks?. Computer Communications, 2017, 104, 159-174.  | 5.1 | 7         |
| 56 | Enhanced Collision Resolution Methods With Mini-Slot Support for 5G NR-U. IEEE Access, 2021, 9, 146137-146152.  | 4.2 | 7         |
| 57 | Study on Simultaneous Transmission and Reception on Multiple Links in IEEE 802.11be networks. , 2020, , .   |     | 7         |
| 58 | Modeling of real-time multimedia streaming with deterministic access. Journal of Communications Technology and Electronics, 2014, 59, 1501-1511.  | 0.5 | 6         |
| 59 | Analytical Study of Periodic Restricted Access Window Mechanism for Short Slots. Electronics (Switzerland), 2021, 10, 549.  | 3.1 | 6         |
| 60 | EVeREst: Bitrate Adaptation for Cloud VR. Electronics (Switzerland), 2021, 10, 678.   | 3.1 | 6         |
| 61 | Is Encrypted ClientHello a Challenge for Traffic Classification?. IEEE Access, 2022, 10, 77883-77897.   | 4.2 | 6         |
| 62 | Analysis of the joint use of the proactive and reactive methods of the topology information dissemination in ad-hoc wireless networks. Journal of Communications Technology and Electronics, 2012, 57, 1322-1330. | 0.5 | 5         |
| 63 | A method to estimate efficiency of the connection control mechanisms in wireless self-organizing networks. Automation and Remote Control, 2012, 73, 797-809.  | 0.8 | 5         |
| 64 | Dynamic Resource Allocation for MCCA-Based Streaming in Wi-Fi Mesh Networks. Lecture Notes in Computer Science, 2013, , 93-111.   | 1.3 | 5         |
| 65 | Fast Quality Assessment of Videos Transmitted over Lossy Networks. , 2014, , .  |     | 5         |
| 66 | Cloud Control to Optimize Real-Time Video Transmission in Dense IEEE 802.11aa/ax Networks. , 2018, , .  |     | 5         |
| 67 | Dynamic Multiplexing of URLLC Traffic and eMBB Traffic in an Uplink Using Nonorthogonal Multiple Access. Journal of Communications Technology and Electronics, 2020, 65, 750-755.                                 | 0.5 | 5         |
| 68 | Joint Usage of Dynamic Sensitivity Control and Time Division Multiple Access in Dense 802.11ax Networks. Lecture Notes in Computer Science, 2016, , 57-71.  | 1.3 | 5         |
| 69 | Experimental Study of Smoothing Modifications of the MUSIC Algorithm for Direction of Arrival Estimation in Indoor Environments. IEEE Access, 2021, 9, 153767-153774.   | 4.2 | 5         |
| 70 | Performance Evaluation of Uplink NOMA in Wi-Fi Networks. , 2020, , .  |     | 5         |
| 71 | Reducing Computational Complexity for the 3GPP TR 38.901 MIMO Channel Model. IEEE Wireless Communications Letters, 2022, 11, 1133-1136.   | 5.0 | 5         |
| 72 | Analyses of NSTR Multi-Link Operation in the Presence of Legacy Devices in an IEEE 802.11 be Network. , 2021, , .   |     | 5         |

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| 73 | Analytical study of link management in IEEE 802.11s mesh networks. , 2012, , .  |     | 4         |
| 74 | Analytical study of neighborhood discovery and link management in OLSR. , 2012, , .   |     | 4         |
| 75 | Algorithm for Dynamic Power Control and Scheduling in IEEE 802.11ax Infrastructure Networks. Journal of Communications Technology and Electronics, 2019, 64, 900-909. | 0.5 | 4         |
| 76 | Prototyping NOMA Constellation Rotation in Wi-Fi. , 2020, , .   |     | 4         |
| 77 | PABAFT: Channel Prediction Approach Based on Autoregression and Flexible TDD for 5G Systems. Electronics (Switzerland), 2022, 11, 1853.                               | 3.1 | 4         |
| 78 | A dynamic channel reservation method for multimedia streaming in Wi-Fi Mesh networks. Automation and Remote Control, 2013, 74, 1460-1473.                             | 0.8 | 3         |
| 79 | Study of the group-based approach to disseminate control information in wireless networks. , 2015, , .  |     | 3         |
| 80 | Modelling deterministic channel access in millimetre wave Wi-Fi. , 2015, , .  |     | 3         |
| 81 | Choosing the channel reservation period in self-organizing wireless networks. Journal of Communications Technology and Electronics, 2015, 60, 1372-1378.              | 0.5 | 3         |
| 82 | Analysis of logical topology construction mechanisms in MANET. Journal of Communications Technology and Electronics, 2015, 60, 1379-1388.                             | 0.5 | 3         |
| 83 | Study of the enhanced algorithm for control information dissemination in Wi-Fi Mesh networks. , 2016, , .   |     | 3         |
| 84 | Improving Efficiency of Heterogeneous Wi-Fi Networks with Energy-Limited Devices. Lecture Notes in Computer Science, 2016, , 181-192.                                 | 1.3 | 3         |
| 85 | Joint Power Control and Time Division to Improve Spectral Efficiency in Dense Wi-Fi Networks. , 2018, , .   |     | 3         |
| 86 | Analysis of YouTube DASH Traffic. , 2019, , .   |     | 3         |
| 87 | Analytical Study of License-Assisted Access in 5G Networks. , 2019, , .   |     | 3         |
| 88 | SDR-based Testbed for Real-time CQI Prediction for URLLC. , 2021, , .   |     | 3         |
| 89 | Distortion Avoidance While Streaming Public Safety Video in Smart Cities. Lecture Notes in Computer Science, 2015, , 89-100.  | 1.3 | 3         |
| 90 | Cost Optimization for Computing Resource Management in Intelligent Transportation Systems. Journal of Communications Technology and Electronics, 2020, 65, 1517-1524. | 0.5 | 3         |

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| 91  | A Study of the Impact of the Contention Window on the Performance of IEEE 802.11bd Networks with Channel Bonding. , 2021, , .   |     | 3         |
| 92  | Performance Evaluation of Downlink Non-Orthogonal Multiple Access in Wi-Fi Networks. Journal of Communications Technology and Electronics, 2021, 66, 1485-1490.             | 0.5 | 3         |
| 93  | Analytical study of the quality of links established by the neighborhood discovery protocol. Journal of Communications Technology and Electronics, 2012, 57, 1314-1321.     | 0.5 | 2         |
| 94  | P-Persistent Queue Management to Overcome Channel Failures in IEEE 802.11 Networks for Real-Time Multimedia Streaming. Lecture Notes in Computer Science, 2013, , 69-79.    | 1.3 | 2         |
| 95  | A mathematical method for packet loss ratio estimation for a multipath route in the presence of correlated errors. Problems of Information Transmission, 2015, 51, 299-305. | 0.5 | 2         |
| 96  | QoS-aware streaming with HCCA TXOP negotiation in overlapped Wi-Fi networks. , 2016, , .  |     | 2         |
| 97  | Analysis of multiplexed streaming via periodic reservations of wireless channel. , 2016, , .  |     | 2         |
| 98  | Beacons in dense Wi-Fi networks: How to befriend with neighbors in the 5G world?. , 2016, , .   |     | 2         |
| 99  | Mathematical model of QoS-aware multicast transmission via periodic reservations. , 2016, , .   |     | 2         |
| 100 | Modeling leader-based multicast transmission via periodic reservations in Wi-Fi networks. , 2016, , .   |     | 2         |
| 101 | Modeling joint usage of random and deterministic channel access in Wi-Fi networks. , 2016, , .  |     | 2         |
| 102 | Reliable low latency communications in LTE networks. , 2017, , .  |     | 2         |
| 103 | SAND-Inspired Cross-Layer Approach for CCTV in 5G Networks. , 2017, , .   |     | 2         |
| 104 | Enabling Low Latency Communications in Wi-Fi Networks. , 2018, , .  |     | 2         |
| 105 | Mathematical Model of a Network Slicing Approach for Video and Web Traffic. Journal of Communications Technology and Electronics, 2019, 64, 890-899.                        | 0.5 | 2         |
| 106 | Approach to Real-Time Communications in Wi-Fi Networks. Journal of Communications Technology and Electronics, 2019, 64, 880-889.  | 0.5 | 2         |
| 107 | Emergency Alert Delivery in a Heterogeneous Wi-Fi HaLow Network. Journal of Communications Technology and Electronics, 2019, 64, 1517-1522.                                 | 0.5 | 2         |
| 108 | On the Capacity of a 5G Network for URLLC. Journal of Communications Technology and Electronics, 2019, 64, 1513-1516.   | 0.5 | 2         |

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| 109 | Mathematical Modeling of Joint Operation of Wireless Local Area Networks and Fifth Generation Cellular Networks. Automation and Remote Control, 2019, 80, 2180-2194.                                   | 0.8 | 2         |
| 110 | Performance Evaluation of TCP Data Transmission in 5G mmWave Networks. Journal of Communications Technology and Electronics, 2020, 65, 735-740.  | 0.5 | 2         |
| 111 | Enhancing the Energy Efficiency of Dense Wi-Fi Networks Using Cloud Technologies. Automation and Remote Control, 2020, 81, 94-106.   | 0.8 | 2         |
| 112 | Radio access network design with software-defined mobility management. Wireless Networks, 2020, 26, 3349-3362.   | 3.0 | 2         |
| 113 | FIND: an SDR-based Tool for Fine Indoor Localization. , 2021, , .  |     | 2         |
| 114 | Poster: fast and reliable alert delivery in Wi-Fi HaLow sensor networks. , 2019, , .   |     | 2         |
| 115 | Enabling Synchronous Uplink NOMA in Wi-Fi Networks. , 2021, , .  |     | 2         |
| 116 | On the Use of Multilink Access Methods to Support Real-Time Applications in Wi-Fi Networks. Journal of Communications Technology and Electronics, 2021, 66, 1476-1484.                                 | 0.5 | 2         |
| 117 | Receiver Design and Frame Format for Uplink NOMA in Wi-Fi. , 2022, , .   |     | 2         |
| 118 | Proximity-based groupcast in MANET (GiM). Journal of Communications Technology and Electronics, 2012, 57, 1303-1313.   | 0.5 | 1         |
| 119 | Head-of-line blocking avoidance in multimedia streaming over wireless networks. , 2014, , .  |     | 1         |
| 120 | Analytical Model of QoS-Aware Streaming in Wi-Fi Networks via Periodic TXOPs. , 2015, , .  |     | 1         |
| 121 | Analytical model of a P-persistent method of queue management for multimedia streaming over wireless networks. Journal of Communications Technology and Electronics, 2015, 60, 1389-1402.              | 0.5 | 1         |
| 122 | Is it worth to predict overflows during video streaming over wireless networks?. , 2015, , .   |     | 1         |
| 123 | A mathematical model of transmitting a non-ordinary flow with periodic reservations and block acknowledgements in a channel with correlated noise. Automation and Remote Control, 2017, 78, 1978-1990. | 0.8 | 1         |
| 124 | Study of Fast Multi-hop ALOHA with Instant Forwarding. , 2018, , .   |     | 1         |
| 125 | Mathematical study of QoS-aware multicast streaming in Wi-Fi networks. , 2018, , .   |     | 1         |
| 126 | Scheduling of Dedicated and Shared Links for Fast and Reliable Data Delivery in IEEE 802.15.4 TSCH Networks. , 2019, , .   |     | 1         |

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| 127 | Cloud-based Management of Energy-Efficient Dense IEEE 802.11ax Networks. , 2019, , .   |     | 1         |
| 128 | Channel switch time distribution in ECMA-368 networks. , 2008, , .   |     | 0         |
| 129 | Wireless Access Flexibility. Lecture Notes in Computer Science, 2013, , .  | 1.3 | 0         |
| 130 | On throughput estimation with TXOP sharing in IEEE 802.11ah networks. , 2016, , .  |     | 0         |
| 131 | Analysis of algorithms for decentralized dynamic channel resource reservation for data streaming in Wi-Fi networks. Journal of Communications Technology and Electronics, 2017, 62, 694-703. | 0.5 | 0         |
| 132 | Analysis of the Differential Update Method for Control Information Dissemination in Wireless Networks. Journal of Communications Technology and Electronics, 2018, 63, 1538-1544.            | 0.5 | 0         |
| 133 | Analytical Study of Adaptive Video Generation in CCTV Over Public Wireless Networks. , 2018, , .   |     | 0         |
| 134 | Analytical study of incremental approach for information dissemination in wireless networks. , 2018, , .   |     | 0         |
| 135 | Generalized Mathematical Model of Reliable Multicast Transmission in Modern Wi-Fi Networks. Journal of Communications Technology and Electronics, 2019, 64, 870-879.                         | 0.5 | 0         |
| 136 | Nonorthogonal Multiple Access for Servicing the Internet of Things and Web Traffic in Wi-Fi Networks. Journal of Communications Technology and Electronics, 2020, 65, 741-749.               | 0.5 | 0         |
| 137 | Super Fast Link Set-Up in Wi-Fi HaLow Networks. IEEE Communications Letters, 2020, 24, 2305-2308.  | 4.1 | 0         |