

# Andrey Lyakhov

## List of Publications by Year in descending order

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87  
papers

1,524  
citations

687363

13  
h-index

434195

31  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1236  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Adaptive Cloud-Based Extended Reality: Modeling and Optimization. IEEE Access, 2021, 9, 35287-35299.	4.2	14
3	Analytical Study of Periodic Restricted Access Window Mechanism for Short Slots. Electronics (Switzerland), 2021, 10, 549.	3.1	6
4	Enhanced Collision Resolution Methods With Mini-Slot Support for 5G NR-U. IEEE Access, 2021, 9, 146137-146152.	4.2	7
5	Enabling Synchronous Uplink NOMA in Wi-Fi Networks. , 2021, , .		2
6	On the Joint Usage of Target Wake Time and 802.11ba Wake-Up Radio. IEEE Access, 2020, 8, 221061-221076.	4.2	9
7	Fast and Reliable Alert Delivery in Mission-Critical Wi-Fi HaLow Sensor Networks. IEEE Access, 2020, 8, 14302-14313.	4.2	13
8	Resource Allocation for Machine-Type Communication of Energy-Harvesting Devices in Wi-Fi HaLow Networks. Sensors, 2020, 20, 2449.	3.8	12
9	Modeling of Real-Time Multimedia Streaming in Wi-Fi Networks With Periodic Reservations. IEEE Access, 2020, 8, 55633-55653.	4.2	10
10	LoRaWAN Modeling and MCS Allocation to Satisfy Heterogeneous QoS Requirements. Sensors, 2019, 19, 4204.	3.8	22
11	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
12	IEEE 802.11ba â€” Extremely Low Power Wi-Fi for Massive Internet of Things â€” Challenges, Open Issues, Performance Evaluation. , 2019, , .		9
13	Scheduling of Dedicated and Shared Links for Fast and Reliable Data Delivery in IEEE 802.15.4 TSCH Networks. , 2019, , .		1
14	New Collision Detection Method for Fair LTE-LAA and Wi-Fi Coexistence. , 2019, , .		9
15	Enabling Massive Real-Time Applications in IEEE 802.11be Networks. , 2019, , .		14
16	Enabling real-time applications in Wi-Fi networks. International Journal of Distributed Sensor Networks, 2019, 15, 155014771984531.	2.2	14
17	A Tutorial on IEEE 802.11ax High Efficiency WLANs. IEEE Communications Surveys and Tutorials, 2019, 21, 197-216.	39.4	336
18	Study of Fast Multi-hop ALOHA with Instant Forwarding. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Enabling Low Latency Communications in Wi-Fi Networks. , 2018, , .		2
20	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
21	Clock Drift Impact on Target Wake Time in IEEE 802.11ax/ah Networks. , 2018, , .		9
22	Cloud Control to Optimize Real-Time Video Transmission in Dense IEEE 802.11aa/ax Networks. , 2018, , .		5
23	Coexistence of Wi-Fi and LTE-LAA Networks: Open Issues. Journal of Communications Technology and Electronics, 2018, 63, 1530-1537.	0.5	19
24	Two-Slot Based Model of the IEEE 802.11ah Restricted Access Window with Enabled Transmissions Crossing Slot Boundaries. , 2018, , .		14
25	What Is the Fastest Way to Connect Stations to a Wi-Fi HaLow Network?. Sensors, 2018, 18, 2744.	3.8	10
26	Testbed to Study the Capture Effect: Can We Rely on this Effect in Modern Wi-Fi Networks. , 2018, , .		12
27	Analytical Study of Adaptive Video Generation in CCTV Over Public Wireless Networks. , 2018, , .		0
28	Analytical study of incremental approach for information dissemination in wireless networks. , 2018, , .		0
29	Mathematical study of QoS-aware multicast streaming in Wi-Fi networks. , 2018, , .		1
30	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
31	Mathematical model of LoRaWAN channel access. , 2017, , .		43
32	Fast centralized authentication in Wi-Fi HaLow networks. , 2017, , .		11
33	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
34	Will MCCA revive wireless multihop networks?. Computer Communications, 2017, 104, 159-174.	5.1	7
35	Mathematical model of LoRaWAN channel access with capture effect. , 2017, , .		59
36	Improving efficiency of heterogeneous Wi-Fi networks with joint usage of TIM segmentation and restricted access window. , 2017, , .		13

#	ARTICLE	IF	CITATIONS
37	IEEE 802.11ax uplink scheduler to minimize, delay: A classic problem with new constraints. , 2017, , .		22
38	QoS-aware streaming with HCCA TXOP negotiation in overlapped Wi-Fi networks. , 2016, , .		2
39	On throughput estimation with TXOP sharing in IEEE 802.11ah networks. , 2016, , .		0
40	Analysis of multiplexed streaming via periodic reservations of wireless channel. , 2016, , .		2
41	Beacons in dense Wi-Fi networks: How to befriend with neighbors in the 5G world?. , 2016, , .		2
42	Mathematical model of QoS-aware multicast transmission via periodic reservations. , 2016, , .		2
43	Study of the enhanced algorithm for control information dissemination in Wi-Fi Mesh networks. , 2016, , .		3
44	The study of the distributed control method to hasten link set-up in IEEE 802.11ah networks. , 2016, , .		11
45	On the Limits of LoRaWAN Channel Access. , 2016, , .		131
46	Improving Efficiency of Heterogeneous Wi-Fi Networks with Energy-Limited Devices. Lecture Notes in Computer Science, 2016, , 181-192.	1.3	3
47	Mathematical model for scheduling in IEEE 802.11ad networks. , 2016, , .		9
48	Modeling leader-based multicast transmission via periodic reservations in Wi-Fi networks. , 2016, , .		2
49	Several EDCA parameter sets for improving channel access in IEEE 802.11ax networks. , 2016, , .		23
50	Modeling joint usage of random and deterministic channel access in Wi-Fi networks. , 2016, , .		2
51	Study of the group-based approach to disseminate control information in wireless networks. , 2015, , .		3
52	Modelling deterministic channel access in millimetre wave Wi-Fi. , 2015, , .		3
53	Analytical Model of QoS-Aware Streaming in Wi-Fi Networks via Periodic TXOPs. , 2015, , .		1
54	IEEE 802.11ax: How to Build High Efficiency WLANs. , 2015, , .		18

#	ARTICLE	IF	CITATIONS
55	Modelling machine type communication in IEEE 802.11ah networks. , 2015, , .		34
56	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
57	Is it worth to predict overflows during video streaming over wireless networks?. , 2015, , .		1
58	Analytical model of batch flow multihop transmission in wireless networks with channel reservations. Automation and Remote Control, 2015, 76, 1179-1192.	0.8	15
59	A survey on IEEE 802.11ah: An enabling networking technology for smart cities. Computer Communications, 2015, 58, 53-69.	5.1	274
60	Head-of-line blocking avoidance in multimedia streaming over wireless networks. , 2014, , .		1
61	QoS support for bursty traffic in noisy channel via periodic reservations. , 2014, , .		7
62	Fast Quality Assessment of Videos Transmitted over Lossy Networks. , 2014, , .		5
63	What's new for QoS in IEEE 802.11?. IEEE Network, 2013, 27, 95-104.	6.9	25
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	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
66	Mathematical model of MCCA-based streaming process in mesh networks in the presence of noise. , 2012, , .		5
67	Analytical study of link management in IEEE 802.11s mesh networks. , 2012, , .		4
68	Analytical study of neighborhood discovery and link management in OLSR. , 2012, , .		4
69	Performance analysis of bandwidth requests under unicast, multicast and broadcast pollings in IEEE 802.16d/e. Telecommunication Systems, 2012, 50, 15-30.	2.5	5
70	Wireless Groupcast Routing with Palette of Transmission Methods. Lecture Notes in Computer Science, 2012, , 97-108.	1.3	2
71	Interference, Even with MCCA Channel Access Method in IEEE 802.11s Mesh Networks. , 2011, , .		14
72	Analytical model of IEEE 802.11s MCCAbased streaming in the presence of noise. Performance Evaluation Review, 2011, 39, 38-40.	0.6	14

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73	Analytical Study of QoS-Oriented Multicast in Wireless Networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	14
74	Intra-flow Interference Study in IEEE 802.11s Mesh Networks. Lecture Notes in Computer Science, 2010, , 127-138.	1.3	2
75	Starvation effect study in IEEE 802.11 mesh networks. , 2009, , .		7
76	Direct transmission protection in IEEE 802.11 networks. , 2008, , .		2
77	Channel switch time distribution in ECMA-368 networks. , 2008, , .		0
78	Synchronization and beaconing in IEEE 802.11s mesh networks. , 2008, , .		4
79	Study of buffering algorithms for video streaming over wireless network. , 2008, , .		0
80	Delay Analysis of Bandwidth Request in Truncated Binary Exponential Backoff Mechanism over Error-Free/Error-Prone Channels in IEEE 802.16e. IEEE International Workshop on Quality of Service, 2008, , .	0.0	5
81	Beaconing for MDA Support in IEEE 802.11s Mesh Networks. , 2007, , .		7
82	Unfair Access Problem in Wi-Fi Hot Spots. , 2007, , .		3
83	Multicast qos support in ieee 802.16. , 2007, , .		2
84	New Aspect of Beaconing in IEEE 802.11s Mesh Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	2
85	Multicast QoS Support in IEEE 802.11 WLANs. , 2007, , .		9
86	WLC22-4: Efficient Request Mechanism Usage in IEEE 802.16. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	42
87	Comparative Study of 802.11 DCF and its Modification in the Presence of Noise. Wireless Networks, 2005, 11, 729-740.	3.0	11