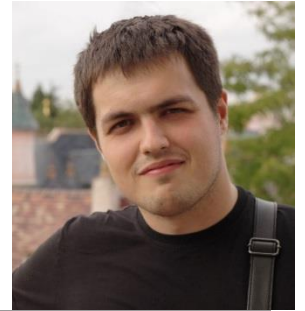


Evgeny Khorov, Ph.D.

+7-926-826-52-94
e@khorov.ru
<http://khorov.ru/>



COMMON INFORMATION

Researcher and consultant in the area of wireless networks.

Areas of interest: Internet of things, 5G networks, dense deployment, MTC, future Wi-Fi, routing, multiple channel access, multimedia streaming, QoS, mathematical modeling.

Over 50 scientific publications.

Russian Government Prize in Science and Technology for Young Scientists (2016), Huawei Best Cooperation Project Leader (2015), Moscow Government Prize for young scientists (2013), Best Paper Award at IEEE ISWCS 2012, Paris, France (among 200 papers).

Contributor and Voting Member of IEEE 802.11 (develops next generation Wi-Fi).

Reviewer of "Communication Letters", "Computer Communications", "Wireless Networks", "Automation and remote control", etc.

Executive Chair of the International Workshop on Wireless Access Flexibility 2013, Information technologies and systems (ITaS) Conference & School 2014, 2015 and 2016.

Tutorial/Panel speaker at a number of scientific conferences, incl.: IEEE ICC 2016, IEEE BlackSeaCom 2017, IEEE ISWCS 2014, IEEE ICACCI 2014, etc.

Experience in applying and leading research grants and industry projects. Leader of projects funded by Huawei, Quantenna Communications, Russian Science Foundation, Russian Foundation for Basic Research, Ministry of Education and Science, etc.

Science promotion in mass media: TV Culture, PostNauka, Radio Silver Rain, Habrahabr, etc.

WORK EXPERIENCE

Senior Researcher, Team Leader

2008 – present time

(early positions: Junior Researcher, Researcher)

*Institute for Information Transmission Problems (Kharkevich Institute),
Russian Academy of Sciences, Network Protocols Research Lab*

Has developed mathematical and simulation models of various networking protocols for wireless ad hoc networks, found drawbacks and improved their efficiency (Russian Government Prize in Science and Technology for Young Scientists, 2016).

Has developed pioneering approaches to model IEEE 802.11ah aka Wi-Fi HaLow (for IoT).

Has designed methods improving QoE in cellular (Huawei Best Cooperation Project Leader).

Has introduced and studied a new type of queuing systems to model multimedia streaming via periodic reservations (Moscow Government Prize for young scientists).

Has developed a theory of link management in multihop ad hoc networks (Best Paper Award).

Has designed and studied performance of the Scalable MESH and Proximity Based Groupcast in MANET routing protocols for QoS sensitive multimedia streaming.

Being an Executive Co-chair of ITaS 2015, he has extended program committee and increased the conference audience and the number of talks (both keynotes and regular) by 50...100%.

Associate Professor (early position: Assistant Professor) 2012 – present time

Moscow Institute of Physics and Technology.

Department for Information Transmission Problems and Data Analysis

Developed a novel course on *Medium Access Layer Protocols*, which combines both theoretical basis and deep analysis of state-of-the-art networking protocols. Lectures on special topics of *Modelling wireless networks*.

Supervises BS and MS students (all 8 students received excellent marks on defense).

Supervises 4 PhD students.

2 supervised students (Alexey Kureev and Vyacheslav Loginov) won the first and the second prizes at the Student Olympiad "Infotelecom" in 2016 and 2015.

Deputy Head of Lab (early position: Senior Research Scientist) 2016 – 2017

Skolkovo Institute of Science and Technology

Center for Computational and Data-Intensive Science and Engineering

Has designed an MS educational program on the Internet of Things (joint program with SUAI).

Has designed two courses on the Industrial Internet of Things and Telecommunication Technologies for the Internet of things.

Visiting Research Fellow July 2015 – October 2015

King's College London, Department of Mathematics and Natural Science

Has developed a method for performance evaluation of Wi-Fi networks in IoT scenarios.

Developer, Team Leader 2007 – 2008

NetCracker

Has created 2 modules for NetCracker OSS. Has implemented Netcracker OSS in MTS, Sprint.

Tutor 2007 – 2008

Moscow Institute of Physics and Technology

Kalashnikov Centre for Research and Innovation in Telecommunication

Has lectured on *Java Advance*. Was responsible for preparing learning material for courses and devising relevant practical activities.

EDUCATION

PhD Student 2010 – 2012

Moscow Institute of Physics and Technology &

Institute for Information Transmission Problems

Doctor of Philosophy. Thesis: *Performance evaluation of data transmission methods, which meet QoS requirements in wireless ad hoc networks*. Early defense at the second year.

Specialization: *Telecommunication Systems and Network*.

Master Student 2008 – 2010

Moscow Institute of Physics and Technology

MS in Applied Physics and Mathematics. Graduated with honors. GPA 5.00 out of 5.00.

Thesis: *Multiple metrics usage in mesh networking*.

Bachelor Student 2004 – 2008

Moscow Institute of Physics and Technology

BS in Applied Physics and Mathematics. Graduated with honors. GPA 4.93 out of 5.00.

Thesis: *Channel Switch Time Distribution in ECMA-368 Networks*.

SKILLS

Advance PC User: Windows, Linux (Ubuntu); LaTeX, R, Matlab, GPSS, ns-3, etc.

Programming Languages: Java (SE, ME, EE), C++, SQL, JavaScript, XML, Html.

Languages: English, Russian, Romanian.

INVITED TALKS, KEYNOTES & TUTORIALS, RADIO&TV

- T1. Evgeny Khorov. Future Wi-fi (Tutorial). IEEE PIMRC, Montreal, Canada, 2017
- T2. IEEE 802.11 in a 5G Landscape. Industrial panel at IEEE International Conference on Communications 2016. Kuala Lumpur, Malaysia, 2016.
- T3. Evgeny Khorov. Wi-Fi for 5G: Faster and Smarter (Tutorial). IEEE BlackSeaCom, Istanbul, Turkey, 2017
- T4. Low Power Wi-Fi – How IEEE 802.11ah is transforming M2M (Tutorial, 2h). IEEE International Symposium on Wireless Communication Systems, Barcelona, Spain, August 2014.
- T5. IEEE 802.11ah, an Enabling Technology for the Internet of Things. How Does it Work? (Tutorial, 3.5h). IEEE International Conference on Advances in Computing, Communications and Informatics. Delhi, India, September 2014.
- T6. Are you ready for the ICT revolution? (Keynote) The LVI Conference of Moscow Institute of Physics and Technology, Dolgoprudny, Russia, November 2013.
- T7. Internet of Things. Black Holes. Blanc Spots. TV Culture, Moscow, Russia, 2016.
- T8. Future Internet. Black Holes. Blanc Spots. TV Culture, Moscow, Russia, 2016.
- T9. Open Lectures: Future Internet. Radio "Silver Rain". Moscow, Russia, September 2015.
- T10. Standards of Wireless Networks. Postnauka. Moscow, Russia. April 2015.

MAIN PAPERS

Proceedings

P1. G. Bianchi, A. Lyakhov, **E. Khorov** (Eds.) Wireless Access Flexibility. First International Workshop, WiFlex 2013, Kaliningrad, Russia, September 4-6, 2013, Proceedings. Series: Lecture Notes in Computer Science, Vol. 8072. Subseries: Computer Communication Networks and Telecommunications. 1st Edition, 2013, XII, 159 p.

Journals and Book Series

- J1. **Evgeny Khorov**, Artem Krasilov, Alexander Krotov, Andrey Lyakhov, Will MCCA. Will MCCA revive wireless multihop networks? Computer Communications. Volume 104, May 2017, Pages 159–174.
- J2. Tian, L.; **Khorov, E.**; Latré, S.; Famaey, J. Real-Time Station Grouping under Dynamic Traffic for IEEE 802.11ah. Sensors 2017, 17, 1559
- J3. A.G. Kiryanov, A.I. Lyakhov, **E.M. Khorov**. Analysis of Algorithms for Decentralized Dynamic Channel Resource Reservation for Data Streaming in Wi-Fi Networks. Journal of Communications Technology and Electronics, 2017, Vol. 62, No. 6, pp. 694–70
- J4. **Evgeny Khorov**, Anton Kiryanov, Alexander Krotov, Pierluigi Gallo, Domenico Garlisi, Ilenia Tinnirello. Joint Usage of Dynamic Sensitivity Control and Time Division Multiple Access in Dense 802.11ax Networks. // Lecture Notes in Computer Science, Vol. 10121, pp. 57 –71. Springer, Nov 2016.
- J5. Alexander Ivanov, **Evgeny Khorov**, Andrey Lyakhov, Ilya Solomatin. Mathematical Model of QoS-aware Streaming with Heterogeneous Channel Access in Wi-Fi Networks // Lecture Notes in Computer Science, 9870, Springer, Sep. 2016.
- J6. Dmitry Bankov, **Evgeny Khorov**, Alexey Kureev, Andrey Lyakhov. Improving Efficiency of Heterogeneous Wi-Fi Networks with Energy-Limited Devices// Lecture Notes in Computer Science, 9870, Springer, Sep. 2016.
- J7. **Evgeny Khorov**, Andrey Lyakhov, Alexander Krotov, Andrey Guschin. A survey on IEEE 802.11ah: an Enabling Networking Technology for Smart Cities. //Computer Communications, Volume 58, March 2015, pp. 53–69, 2015.
- J8. **E.M. Khorov**. Choosing the channel reservation period in self-organizing wireless networks. //Journal of Communications Technology and Electronics, 2015, Vol. 60, No. 12, pp. 1372-1378.

- J9. A.G. Kiryanov, A.A. Kureev, A.I. Lyakhov, **E.M. Khorov**. Analysis of Logical Topology Construction Mechanisms in MANET. //Journal of Communications Technology and Electronics, 2015, Vol. 60, No. 12, pp. 1379–1388.
- J10. I. S. Kargin, **E. M. Khorov**, A. I. Lyakhov. A mathematical method for packet loss ratio estimation for a multipath route in the presence of correlated errors. //Problems of Information Transmission. July 2015, Volume 51, Issue 3, pp. 299-305.
- J11. A.G. Kiryanov, V.A. Loginov, A.I. Lyakhov, **E.M. Khorov**. Analytical Model of a P-Persistent Method of Queue Management for Multimedia Streaming over Wireless Networks. //Journal of Communications Technology and Electronics, 2015, Vol. 60, No. 12, pp. 1389–1402.
- J12. Ivanov A.S. Lyakhov A.I. and **Khorov E.M.** Analytical Model of Batch Flow Multihop Transmission in Wireless Networks with Channel Reservations. //Automation and Remote Control. July 2015, Volume 76, Issue 7, pp. 1179-1192.
- J13. A. G. Kiryanov, A. I. Lyakhov, and **E. M. Khorov**, Modeling of RealTime Multimedia Streaming with Deterministic Access. //Journal of Communications Technology and Electronics, 2014, Vol. 59, No. 12, pp. 1501–1511.
- J14. **E. Khorov**, A. Krasilov, A. Lyakhov, D. Ostrovsky. Dynamic Resource Allocation for MCCA-Based Streaming in Wi-Fi Mesh Networks. //Lecture Notes in Computer Science, 2013, v. 8072, pp. 94-113.
- J15. A. Guschin, **E. Khorov**, A. Kiryanov, A. Lyakhov, A. Safonov. P-persistent Queue Management to Overcome Channel Failures in IEEE 802.11 Networks for Real-time Multimedia Streaming. //Lecture Notes in Computer Science, 2013, v. 8072, pp. 70-80.
- J16. A. Krasilov, A. Lyakhov, D. Ostrovsky, and **E. Khorov**. A Dynamic Channel Reservation Method for Multimedia Streaming in Wi-Fi Mesh Networks. //Automation and Remote Control, Volume 73, Issue 5, pp. 797-809, 2012.
- J17. Kiryanov, A. G.; Lyakhov, A. I.; Safonov, A. A., **Khorov E.M.** A method to estimate efficiency of the connection control mechanisms in wireless self-organizing networks. //Automation and Remote Control, 2012, vol. 73, no. 5. P. 797–809.
- J18. Lyakhov, A. I., Ostrovsky, D. M., **Khorov E.M.** Analytical study of the quality of links established by the neighborhood discovery protocol. //Journal of Communications Technology and Electronics, 2012, Vol. 57, no 12. pp. 1314-1321.
- J19. Lyakhov, A. I.; Nekrasov, P. O.; Ostrovsky, D. M.; Safonov, A. A., **Khorov E.M.** 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, vol. 57, no 12, pp. 1322–1330.
- J20. Kiryanov, A. G.; Lyakhov, A. I.; Nekrasov, P. O.; Platov D.A., Safonov, A. A., **Khorov E.M.** et al. Proximity-based Groupcast in MANET (GiM). //Journal of Communications Technology and Electronics, 2012, vol. 57, no 12, pp.1303–1313.
- J21. Shvets E., Lyakhov A., Safonov A., **Khorov E.** Analytical model of IEEE 802.11s MCCA based streaming in the presence of noise. //ACM SIGMETRICS Performance Evaluation Review. 2011. V. 39. No. 2. P. 38-40.
- J22. **Khorov Evgeny**, Safonov Alexander. Multiple metrics in MANET with end - to - end QoS support for unicast and multicast traffic. //Lecture Notes in Computer Science, Vol. 6235, p. 251-262, Springer, 2010.

Conferences

- C1. Dmitry Bankov, Andrey Didenko, **Evgeny Khorov**, Vyacheslav Loginov, Andrey Lyakhov. IEEE 802.11ax Uplink Scheduler to Minimize Delay: a Classic Problem with New Constraints //In Proc. of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC'17), Montreal, Canada, 2017.

- C2. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov. Mathematical Model of LoRaWAN Channel Access with Capture Effect //In Proc. of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC'17), Montreal, Canada, 2017.
- C3. **Evgeny Khorov**, Artem Krasilov, Mikhail Liubogoshchev, Suwen Tang. SEBRA: SAND-Enabled Bitrate and Resource Allocation algorithm for network-assisted video streaming. //In Proc. of WiMob 2017, Rome, Italy, 2017.
- C4. Dmitry Bankov, Aleksey Kureev, **Evgeny Khorov**, Andrey Lyakhov. Improving Efficiency of Heterogeneous Wi-Fi Networks with Joint Usage of TIM Segmentation and Restricted Access Window //In Proc. of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC'17), Montreal, Canada, 2017.
- C5. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov, Ekaterina Stepanova. Fast Centralized Authentication in Wi-Fi HaLow Networks. In Proc. of IEEE International Conference on Communications, pp 2979–2984, Paris, France, 2017.
- C6. **Evgeny Khorov**, Artem Krasilov, Alexey Malyshev. Radio Resource Scheduling for Low-Latency Communications in LTE and beyond. In Proc. of IEEE/ACM International Symposium on Quality of Service, Vilanova i la Geltru, Spain.
- C7. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov. Mathematical Model of LoRaWAN Channel Access. In Proc. of IEEE 18th International Symposium on "A World of Wireless, Mobile and Multimedia Networks" (WoWMoM), Macao, 2017.
- C8. **Evgeny Khorov**, Artem Krasilov, Alexey Malyshev. Reliable Low Latency Communications in LTE Networks. In Proc. of IEEE International Black Sea Conference on Communications and Networking, Istanbul, Turkey, 2017
- C9. **Evgeny Khorov**, Viacheslav Loginov, Andrey Lyakhov. Several EDCA Parameter Sets for Improving Channel Access in IEEE 802.11ax Networks // In Proc. of 2016 ISWCS, IEEE press, Poznan, Poland, September 2016.
- C10. Andrey Belogaev, **Evgeny Khorov**, Artem Krasilov, Andrey Lyakhov. Study of the enhanced algorithm for control information dissemination in Wi-Fi Mesh networks // In Proc. of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'16), Spain, 2016.
- C11. Alexander Ivanov, **Evgeny Khorov**, Egor Kuznetsov, Andrey Lyakhov. Modeling Leader-based Multicast Transmission via Periodic Reservations in Wi-Fi networks // In Proc. of 2016 ISWCS, IEEE press, Poznan, Poland, September 2016.
- C12. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov. The Study of the Distributed Control Method to Hasten Link Set-up in IEEE 802.11ah Networks. // In Proc. of XV International Symposium "Problems of Redundancy in Information and Control Systems", St. Petersburg, September 2016.
- C13. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov, Sigurd Schelstraete. Beacons in Dense Wi-Fi Networks: How to Befriend with Neighbors in the 5G World? // In Proc. of IEEE WoWMoM, Portugal, June 2016.
- C14. **Evgeny Khorov**, Anton Kiryanov, Andrey Lyakhov. QoS-aware Streaming With HCCA TXOP Negotiation in Overlapped Wi-Fi Networks //In proc. of IFIP Wireless Days - 2016, Toulouse, France, 2016.
- C15. **Evgeny Khorov**, Viacheslav Loginov, Andrey Lyakhov. On Throughput Estimation with TXOP Sharing in IEEE 802.11ah Networks //In proc. of IEEE BlackSeaCom - 2016, Varna, Bulgaria, June 2016.
- C16. **Evgeny Khorov**, Anton Kiryanov, Andrey Lyakhov. Analysis of Multiplexed Streaming via Periodic Reservations of Wireless Channel // In proc. of IEEE BlackSeaCom - 2016, Varna, Bulgaria, June 2016.
- C17. Alexander Ivanov, **Evgeny Khorov**, Andrey Lyakhov, Ilya Solomatin. Modeling Joint Usage of Random and Deterministic Channel Access in Wi-Fi Networks //In proc. of Wireless Communications and Mobile Computing 2016, Cyprus, 2016

- C18. Alexander Ivanov, **Evgeny Khorov**, Egor Kuznetsov, Andrey Lyakhov. Mathematical Model of QoS-aware Multicast Transmission via Periodic Reservations // In proc. of IEEE Wireless Communications and Networking Conference (WCNC 2016), Doha, Qatar, 2016
- C19. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov. On the Limits of LoRaWAN Channel Access. // In Proc. of IEEE En&T 2016, Moscow, Russia, 2016.
- C20. Alexander Ivanov, **Evgeny Khorov**, Andrey Lyakhov. Analytical Model of QoS-aware Streaming in Wi-Fi Networks via Periodic TXOPs. //In Proc. IEEE Globecom 2015 - ETFWLALN. San Diego, USA, December 2015.
- C21. **Evgeny Khorov**, Alexander Ivanov, Andrey Lyakhov, Vitaly Zankin. Modelling Channel Access in Millimetre Wave Wi-Fi. //In Proc. International Symposium on Wireless Communication Systems (ISWCS). Brussels, Belgium. August 2015.
- C22. Andrey Belogaev, **Evgeny Khorov**, Artem Krasilov, Andrey Lyakhov. Study of the group-based approach to disseminate control information in wireless network. //In Proc. International Symposium on Wireless Communication Systems (ISWCS). Brussels, Belgium. 2015.
- C23. **Evgeny Khorov**, Alexander Krotov, Andrey Lyakhov. Modelling Machine Type Communication in IEEE 802.11ah networks. //In Proc. of IEEE International Conference on Communications - Workshop on 5G & Beyond - Enabling Technologies and Applications. London, UK, June 2015.
- C24. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov. Is it Worth to Predict Overflows during Video Streaming over Wireless Networks? //In Proc. of IEEE BlackSeaCom. Constanta, Romania, May 2015.
- C25. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov. The Study of the Centralized Control Method to Hasten Link Set-up in IEEE 802.11ah Networks. //In Proc. of European Wireless 2015, Budapest, Hungary. May 2015.
- C26. Igor Kargin, **Evgeny Khorov**, Andrey Lyakhov. On PLR Estimation for a Multipath Route with Failure Correlation. //In Proc. of European Wireless 2015, Budapest, Hungary. May 2015.
- C27. **Evgeny Khorov**, Alexander Ivanov, Andrey Lyakhov. QoS Support for Bursty Traffic in Noisy Channel via Periodic Reservations. //In proc. of IFIP Wireless Days – 2014. Rio-de-Janeiro, Brazil. November 2014.
- C28. Dmitry Bankov, **Evgeny Khorov**, Andrey Lyakhov. Fast Quality Assessment of Videos Transmitted over Lossy Networks. //In Proc. of IEEE En&T 2014, Moscow, Russia, 2014.
- C29. **Evgeny Khorov**, Anton Kiryanov, Vyacheslav Loginov, Andrey Lyakhov. Head-of-Line Blocking Avoidance in Multimedia Streaming over Wireless Networks. //In proc. of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'14), USA, 2014.
- C30. **Evgeny Khorov**, Artem Krasilov, Alexander Safonov, Pablo Serrano, Ilenia Tinnirello. Making IEEE 802.11Wireless Access Programmable. //Future Network and Mobile Summit 2013 Conference Proceedings, Lisbon, Portugal, 2013.
- C31. **Khorov E.**, Kiryanov A., Lyakhov A., Ostrovsky D. Analytical Study of Neighborhood Discovery and Link Management in OLSR. //IFIP Wireless Days 2012, Dublin, Ireland, 2012.
- C32. **Khorov E.**, Kiryanov A., Lyakhov A., Safonov A. Analytical Study of Link Management in IEEE 802.11s Mesh Networks. //International Symposium on Wireless Communication Systems (ISWCS), Paris, France, 2012. P. 786-790. (Best paper award).
- C33. **Khorov E.**, Lyakhov A., Safonov A. Flexibility of Routing Framework Architecture in IEEE 802.11s Mesh Networks. //Proc. 8th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS 2011), Valencia, Spain, October 17-21, 2011.
- C34. A. Safonov, A. Lyakhov, **E. Khorov**. "Channel Switch Time Distribution in ECMA-368 Networks". //Proc. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'08), France, 2008.

IEEE 802.11 Proposals

- S1. **Khorov E.**, et al. CR_CID_122_576_972_2598 (Adaptive RTS/CTS), 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-1211-02-00ax-cr-cid-122-576-972-2598.docx>
- S2. **Khorov E.**, et al. Rules for 2 EDCA parameters, 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-0998-03-00ax-rules-for-2-edca-parameters.pptx>
- S3. **Khorov E.**, et al. Channel Access Efficiency, 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-0684-02-00ax-channel-access-efficiency.pptx>
- S4. **Khorov E.**, et al. Random Access RU Allocation in the Trigger Frame, 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-0582-03-00ax-random-access-ru-allocation-in-the-trigger-frame.pptx>
- S5. **Khorov E.**, et al. Considerations on Trigger Frame for Random Access Procedure, 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-0399-01-00ax-considerations-on-trigger-frame-for-random-access-procedure.pptx>
- S6. **Khorov E.**, et al. Multiple NAVs for Spatial Reuse, 2015. URL: <https://mentor.ieee.org/802.11/dcn/15/11-15-1348-00-00ax-multiple-navs-for-spatial-reuse.pptx>
- S7. **Khorov E.**, et al. Beacon Collision Avoidance, 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-0017-00-00ax-beacon-collision-avoidance.pptx>
- S8. **Khorov E.**, et al. Results for beacon collisions, 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-0297-02-00ax-results-for-beacon-collisions.pptx>
- S9. **Khorov E.**, et al. TDMA for Eliminating Hidden Station Effect in Dense Networks, 2016. URL: <https://mentor.ieee.org/802.11/dcn/16/11-16-0018-02-00ax-tdma-for-eliminating-hidden-station-effect-in-dense-networks.pptx>