

Publications

- Gabidulin, E., Pilipchuk, N., Trushina, O. “Bounds on the Cardinality of Subspace Codes with Non-maximum Code Distance“, Probl. Inf. Transm., 2021, V. 57, pp.241–247
[doi:10.1134/S0032946021030030](https://doi.org/10.1134/S0032946021030030)
- O. Trushina, E. Gabidulin “Anonymous Coherent Network Coding Against Eavesdropping and Jamming”, Electronic Notes in Discrete Mathematics, 2017, V. 57, pp. 199-204
[doi:10.1016/j.endm.2017.02.033](https://doi.org/10.1016/j.endm.2017.02.033)
- O. Trushina, E. Gabidulin ”A new method for ensuring anonymity and security in network coding”, Problems of Information Transmission, 2015, V. 51, I. 1, pp. 75-81
[doi:10.1134/S0032946015010081](https://doi.org/10.1134/S0032946015010081)
- Gabidulin E.M., Pilipchuk N.I., Trushina O.V. ”Secure information transmission in telecommunication networks”, Proceedings of MIPT, 2013, V. 5, pp. 97-111

Conference Papers and Presentations

2022, August 11

Sydney, Australia, online

Encrypt(Syd) Meetup

M. Samokhina, O. Trushina “NIST Post-Quantum Cryptography Standardization Project: Who are the Finalists?”.

2018, April 10-11

Munich, Germany

Munich Workshop on Coding and Cryptography

M. Samokhina, O. Trushina “Class of Rank-codes based cryptosystems”.

2017, November 29-30

Moscow/Dolgoprudny, Russia

IV International Conference “Engineering and Telecommunication – En&T-2017”

M. Samokhina, O. Trushina “Code-based cryptosystems evolution”.

2017, September 18-22

Saint-Petersburg, Russia

Tenth International Workshop on Coding and Cryptography

O. Trushina ”On Information-Theoretic Approach to Messages Unlinkability for Physical-Layer Network Coding”.

2016, September 26-29

Saint-Petersburg, Russia

Fifteenth International Symposium “Problems of Redundancy in Information and Control Systems”

O. Trushina ”On the Anonymity of Physical-Layer Network Coding Against Wiretapping”.

doi: [10.1109/RED.2016.7779353](https://doi.org/10.1109/RED.2016.7779353)

2016, June 18-24

Albena, Bulgaria

Fifteenth International Workshop on Algebraic and Combinatorial Coding Theory

O. Trushina ”Anonymous Coherent Network Coding Against Active Adversary”.

Published in the conference proceedings

<http://www.math.bas.bg/moiuser/ACCT2016/a47.pdf>

2015, April 20-24

Zandvoort, The Netherlands

IEEE Information Theory School

Poster "Wiretap Channel: Messages Untraceability for Free?"

2015, November 18-19

Moscow/Dolgoprudny, Russia

Second International Conference

"Engineering and Telecommunication"

O. Trushina "On anonymity in Wireless Networks".

Published in the conference proceedings pp. 48-50.

2014, November 24-29

Moscow/Dolgoprudny, Russia

57th MIPT Scientific Conference

O. Trushina "Anonymous Gaussian Wiretap Channel".

Published in the conference proceedings.

2014, September 7-13

Svetlogorsk, Russia

Fourteenth International Workshop on Algebraic and Combinatorial Coding Theory

O. Trushina "Towards to Anonymity in Physical-Layer Network Coding".

Published in the conference proceedings

<http://www.moi.math.bas.bg/acct2014/a53.pdf>

2013, November 25-30

Moscow/Dolgoprudny, Russia

56th MIPT Scientific Conference

O. Trushina, E. Gabidulin "Anonymous and Secure Network Coding".

Published in the conference proceedings pp. 34-35.

2013, September 6-12

Albena, Bulgaria

Optimal Codes and Related Topics

E. Gabidulin, O. Trushina "Anonymous and Secure Network Coding Scheme".

Published in the conference proceedings

<http://www.moi.math.bas.bg/oc2013/a14.pdf>

2012, November 19-25

Moscow/Dolgoprudny, Russia

55th MIPT Scientific Conference

O. Trushina "Frequency Planning Optimization for Wireless Backbone MESH Networks".

Published in the conference proceedings pp. 43-44.

2010, October 26-28

Moscow, Russia

Distributed Computer and Communication Networks. Theory and Applications

O. Trushina, A. Larionov "A Novel Approach for Frequency Planning for Resource Allocation Optimization in Ultra-High Throughput Millimeter-Wave Wireless Backbone MESH Networks".

Published in the conference proceedings pp. 313-322.

Grants

Participant of

- Russian Foundation for Basic Research project 12-07-00122-a "Network Coding and Information Protection Theory Development for Telecommunication Networks" 2012-2013
- Russian Foundation for Basic Research project 15-07-08480 "Network Coding and Information Protection Theory Extension for Telecommunication Networks" 2014-2017