

# LIST OF PUBLICATIONS

## Marina Samokhina *nee* Churusova

1. Marina Samokhina, Oksana Trushina. Code-Based Cryptosystems Evolution. **IEEE Xplore**. November 2017. 4th International Conference Engineering & Telecommunication – [En&T 2017](#) . [Download from ieeeXplore](#) [Download full text](#)
2. M.A. Samokhina. Semi-annual report as part of the project “Development and research of network coding and secure transferring data algorithms in the information communication systems framework”, MIPT, June 2009.
3. M.A. Samokhina. and reports as part of a project “Development and research of code structures for security transfer image and video data”, The Institute for information transmission problems of the Russian Academy of Sciences (Kharkevich Institute)
  1. “Simulations results for rank code based cryptosystem for transferring raw images via a channel with errors” Annual report June 2008
  2. “Structural attack and extention of Sidelnikov and Shestakov cryptoanalysis for rank based algorithm with Niederreiter modification” Semi-annual report November 2007
  3. “Usage rank codes for video data transferring to correct specific types of errors” Annual report June 2007
4. M.A. Samokhina. Annual reports as part of a project “Working out of the information security theory, methods and algorithms for channels with multiple interference sources”, Moscow Institute of Physics and Technology, RAS, November 2006. Pp. 56-70.; June 2007; January 2008.
5. M.A. Samokhina. The application of new cryptosystem for video transfer security // The magazine “Information-management system”. // St. Petersburg February, 2009. –P. 41-46.
6. M.A. Samokhina. The application of Niederreiter system modification for video processing security. // Present-day problems of fundamental and applied science –radio engineering and information security: Proceeding of 51-th MIPT scientific conference, T. I / MIPT – M.: 2008.–P.11-14. [Download](#)
7. M.A. Samokhina. The cryptanalysis of systems based on linear codes. // Problems of information security. Computer system. Quarterly magazine of Saint-Petersburg State Polytechnical University publishers edited by professor P. Zegjda. // St. Petersburg 2008. – P.94-103.
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9. M.A. Samokhina. The analysis of Niederreiter cryptosystem modifications. // Proceeding of conference “**RusCrypto** 2008. // Moscow 2008.“RusCrypto” Consortium. [Download](#)
10. M.A. Samokhina. The full analysis of family Niederreiter cryptosystems.// Present-day problems of fundamental and applied science –radio engineering and information security: Proceeding of 50-th MIPT scientific conference, T. I / MIPT –Moscow, 2007. –P. 25-26.
11. M.A. Churusova. The cryptanalysis of classic and modified Niederreiter cryptosystem // Present-day problems of fundamental and applied science –radio engineering and information security: Proceeding of XLIX MIPT scientific conference, T. I / MIPT – Moscow, 2006. –P. 4-5.
12. M.A. Churusova, E.M.Gabidulin. Associated metrics and their application for updating Niederreiter cryptosystem // The fourth All-Russian Conference ” Mathematics and safety of information technologies ” (**MaBIT-05**). Moscow, Moscow State University, 2005. [Download](#)
13. M.A. Churusova. Associated metrics and their application for modification Niederreiter cryptosystem // Present-day problems of fundamental and applied science –radio

- engineering and information security: Proceeding of XLVIII MIPT scientific conference, T. I / MIPT – M.: 2005. –P. 13-16.
- 14.M.A.Churusova, E.M.Gabidulin. The modified Niederreiter cryptosystem based on new metric. Proceedings of **ISCTA2005**, Ambleside, Lake District, UK, July, 2005.
  - 15.M.A. Churusova, E.M.Gabidulin. Niederreiter cryptosystem modification. Proceedings of Moscow state institute of radio engineering, electronics and automation, Moscow, January, 2005, P. 27-29.
  - 16.M.A. Churusova. The new metrics for public key cryptosystem, based on linear codes // Present-day problems of fundamental and applied science –radio engineering and information security: Proceeding of XLVII MIPT scientific conference, T. I / MIPT – Moscow, 2004.P. 18–19.
  - 17.M.A. Churusova. Software solutions for web-sites and portals dynamic management based on Documentum 4i // Present – day problems of fundamental and applied science – system integration and management: Proceeding of XLVI MIPT scientific conference, T. I / MIPT – Moscow, 2003. – P. 32-33
  - 18.M.A. Churusova. Experiments in the theory of quantum computers: Qubit teleportation // Present – day problems of fundamental and applied science – radio engineering and information security: Proceeding of XLVI MIPT scientific conference, T. I / MIPT – Moscow, 2003. –P. 25–26.