Full name: Anastasia Motrenko
Birth date: May 19, 1992
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Education

since 2014   Phd Student at Moscow Institute of Physics and Technology (State University)
Department of Applied Mathematics and Control Sciences
supervised by Prof. Vadim Strijov

2012–2014   Student at Moscow Institute of Physics and Technology (State University)
Department of Applied Mathematics and Control
Bachelor's and Master's degrees under supervision of Prof. Vadim Strijov

Employment

since 2013   Junior researcher/Engineer at Dorodnicyn Computing Centre of RAS
Participation in research projects, including:
- building prototypes, products, and systems for testing (Python or Matlab)
- publication of scientific results
- writing research and grant proposals
- supervision of undergraduate students

Research & Key publications

- **Sample size estimation in classification**

  [Eng] A. Aduenko, A. Motrenko, V. Strijov. Object selection in credit scoring using covariance matrix of parameters estimations // Submitted to *Annals of Operations Research* in 2016.

  [Eng] A. Motrenko, V. Strijov, G.-W. Weber. Bayesian sample size estimation for logistic regression // *Journal of Computational and Applied Mathematics*, 2014, 255. 743-752.

  Supported by RFBR 12-07-31095 ("Algorithms for generalized linear classification model selection for low-volume samples", as the project leader), 14-07-31045 ("Developing and analysis of classification models for sample sets of small size supported")

- **Intrinsic Plagiarism Detection**

  [Eng] M. Kuznetsov, A. Motrenko, R. Kuznetsova, and V. Strijov. A framework for intrinsic plagiarism detection and author diarization // *Notebook for PAN at CLEF 2016*.

  [Rus] I. Molibog, A. Motrenko, V. Strijov. Dimensionality reduction for intrinsic plagiarism detection // Summitted to *Informatics and applications*, 2016. (И.О. Молибог, А.П. Мотренко, В.В. Стрижов. Методы снижения размерности в задаче обнаружения внутреннего плагиата // Подано в журнал *Информатика и её применения*.)

  Supported by Antiplagiat.Research

- **Time series forecasting and classification**

  [Eng] A. Motrenko, K. Rudakov, V. Strijov. Combining endogenous and exogenous variables in a special case of non-parametric time series forecasting model // *Moscow University Computational Mathematics and Cybernetics*, 2016, Vol. 36, No. 2, 71-78.

[Eng] A. Motrenko, V. Strijov. Extracting fundamental periods to segment biomedical signals // *Journal of Biomedical and Health Informatics*, 2016, Vol. 20, No. 6, 1466 - 1476.

[Rus] A. Motrenko, V. Strijov Obtaining an aggregated forecast of railway freight transportation using Kullback–Leibler distance // *Informatics and applications*, 2014. Vol. 8, No. 2. 86-97. (Мотренко А. П., Стрижов В. В. Построение агрегированных прогнозов объемов железнодорожных грузоперевозок // *Информатика и её применения*)

Scholarships

- **Presidential scholarship** for young researchers and postgraduate students, 2016–2018.

- **Scholarship for postgraduate studies at MIPT**, under the "Staff" framework of the 5-100 programm, 2015–2017.

Extras

- participated in a research project "Function learning for information retrieval" during **summer internship** at Laboratory of Informatics, University Grenoble Alps under supervision of Prof. Eric Gaussier.

- **assistant chair** at EURO conferences in 2013 and 2012.

- **assistant editor** of the Machine Learning and Data Analysis journal (2013)

Languages

Russian (native), English, basic French and Spanish.