Dmitry **Ermilov**

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Research Interests

Machine Learning , Tensors for Artificial Intelligence , Neural Networks Compression

Education

Ph. D. Data Science

Skoltech, Russia
2019 - present

Computational and Data Science and Engineering

- Scientific superviser: **Andrzej Cichocki**, **Maxim Panov**

M.S. Data Science

Skoltech, Russia
2017 - 2019

Department of Computational and Data-Intensive Science and Engineering

- Thesis: **Sensor Fusion and Artificial Intelligence for Assessing eSports Athletes Concentration**
- Scientific superviser: **Andrey Somov**, **Maxim Panov**
- Average score: 4.76/5

B.S. Applied Mathematics and Physics

MIPT, Russia
2013 - 2017

Department of Radio Engineering and Cybernetics

- Thesis: **Clustering with Additional Information**
- Scientific superviser: **Maxim Panov, Yury Yanovich**
- Average score: 8.9/10(top 10%)

Skills

- *Programming languages:* Python, C/C++, Matlab, Latex
- *Languages:* English(fluent), Russian(native), German(basic)

Publications

- A. Menshchikov, D. Ermilov, I. Dranitsky, L. Kupchenko, M. Panov, M. Fedorov, A. Somov **"Data-Driven Body-Machine Interface for Drone Intuitive Control through Voice and Gestures"**, 45th Annual Conference of the IEEE Industrial Electronics Society (IECON 2019), Lisboa, Portugal, October 14-17, 2019.(Accepted)
- D. Shadrin, A. Menshchikov, D. Ermilov and A. Somov, **"Designing Future Precision Agriculture: Detection of Seeds Germination Using Artificial Intelligence on a Low-Power Embedded System"**, IEEE Sensors Journal, 2019.
- Dmitry Ermilov, Maxim Panov, Yury Yanovich, **"Automatic Bitcoin Address Clustering"**, 2017 16th IEEE International Conference on Machine Learning and Applications (ICMLA), pp. 461–466, 2017

Awards

- *Advanced State Academic Scholarship*: granted to students with reseach activity, 2016
- *Phystech Foundation Scholarship*: granted to the 10-15 best students of the department, 2015-2016
- *Scholarship of MIPT Academic Council*: granted to students with excellent marks in two consecutive terms, 2017
- *Advanced Student Scholarship*: granted to students with excellent marks in preceding term, 2014-2016

Work Experience

Resarch Intern
Sep 2019 - Nov 2019

Skoltech, Russia
- Working over neural networks compression and speedup

Resarch Intern
Sep 2018 - Dec 2018

Nokia Bell Labs, Cambridge, UK
- Developing sensor fusion application for smartphone, smartwatch and earbud

Resarch Intern
Jun 2018 - Aug 2018

Nvidia, Moscow, Russia
- Clustering GeForce Experience feedbacks

Resarch Intern
Oct 2016 - Aug 2017

Bitfury, Moscow, Russia
- Clustering Bitcoin addresses

Achievements

- Studying gaze and hand patterns of pro and amateur players
- Taking part in IEEE International ”Sensors and Measurements” Student Contest, 2017-2018 edition, Houston(USA), with ”Drone Instantaneous Control be Voice and Gesture” project.
- Implementing part of Grassman-Stiefel Eigenmaps method in Python.