

Nikolaev Mikhail

+7(925)-302-26-79

nikolaev.ma@phystech.edu

Education

Moscow Institute of Physics and Technology
Master of Technology and Math
Department of Innovation and High Technology

August 2018 - Present

Projects

GitHub

<https://github.com/nikolaev1ma>

Diploma

I am currently writing a paper on discrete mathematics:

There are N points on the plane and you need to find such a division of the plane into the minimum number of faces so that each face is convex and there are no more K points inside each face. It is stated that there is always a minimum number of faces of order $(N / (K + 1))$.

The problem can also be generalized from a two-dimensional space to a D -dimensional one. In this case, the minimum number of parts into which we divide the space will be of the order $(N + D - 2) / (K + 1)$

Technical Strengths

Programming Technologies

Python, C++, Bash, PostgreSQL
Linux, git, qt, flask, django

Academic Achievement

Runner up in Russian Math Olympiad(2016-2018)
Silver Medal at the MMO(2018)
Bronze Medal at International Zhautykov Olympiad of Math(2017)
Third place in the team competition at the Kolmogorov tournament in League 1(2018)
Third place in the HSE Olympiad in game theory(2020)

Carrier Objective

Engage in interesting tasks related to computer science and mathematics. Constantly find new problems and solve them.

I would like to try to combine all the skills in the future profession. Programming, higher and discrete mathematics, probability theory.

Extra-Curricular

At school and at the University, I constantly participate in Olympiads and various visiting schools like CombAlg, Moscow fees, "Sirius".

Now I am organizing and checking school Olympiads, such as the Russian School Olympiad.

In the summer, I went to Bulgaria to teach mathematics to gifted students.

Took courses in machine learning and probability theory on "Coursera"