

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION
Federal State Educational Institution of Higher Education
«Kazan National Research Technical University named after A. N. Tupolev-KAI»
(KNRTU-KAI)

Institute of Computer Technologies and Information Protection

(Institute name)


Department of Applied Mathematics and Informatics

(department name)

01.03.02 «Applied Mathematics and Informatics» field «Operations Research and System Analysis»
(reference code and name of area of training (specialty))

Admitted to defense

**Head of Applied Mathematics and
Informatics Department**

 S. Faydullin

«05» 06 2019

FINAL QUALIFYING WORK

On the theme of Implementation of numerical methods for solving nonsmooth
extremal problems

STUDENT Biryukov Aleksey

(initials, surname)


(personal signature)

ACADEMIC ADVISOR D. Sc., Full Professor Zabotin Vladislav

(initials, surname)


(personal signature)

Kazan 2019