

ABSTRACT

The thesis is presented in 54 pages. It contains 2 appendixes and bibliography of 21 references. Thirteen figures and 4 tables are given in the thesis.

The goal of the thesis is to develop mathematical and software tools for solving the problem of spam filtration in mobile networks.

In the thesis, existing solutions are analyzed, such as the method of reference vectors, the Naive Bayes classifier, the Random Forest algorithm and the k-neighbors method.. They are compared in terms of the accuracy of obtained results, algorithm efficiency and the adaptability of the methods to use in the message filtering system. In the thesis, the Naïve Bayes classifier is used to solve the task.

The automated system implementing the chosen method is developed. The developed system is tested.

Keywords: SMS-spam, Naive Bayes, spam filtration system, binary classifier, Android app.