

ABSTRACT

The thesis is presented in 66 pages. It contains 2 appendixes and bibliography of 10 references. Eighteen figures, one graph and two tables are given in the thesis.

This thesis is dedicated to the development of automated subsystem, which performs automatic classification, storage, search and display publications.

This paper describes in detail all the stages of designing the subsystem " Subsystem for automated classification of publications using Universal Decimal Classifier " and features the creation of this subsystem. In this paper the comparative analysis of the basic mathematical methods and approaches of classification of publications and elected best model in terms of practicality and adequacy among others for building the classifier.

Formal algorithm of the model has been composed and its implementation has been performed. Built classifier had tested based on the model chosen on the material of the finished publications. The results are compared with the data of the results of other similar qualifiers and then established the level of universality method embedded in this work.

The result of the development of this subsystem is the data model, who describes this subsystem, constructed a separate database schema where the database is stored designed for this subsystem.

Main ideas of the thesis were published in the Proceedings of the International Scientific and Technical Conference of young scientist and students.

Keywords: automated subsystem, bayesian networks of trust, the classification of publications, Bayesian classifier, publication, Universal Decimal Classification.