ABSTRACT

The theme: Text analysis of declarations for corruption detection.

Diploma work: p., fig., tabl. appendixes, sources.

CORRUPTION, REGRESSION ANALYSIS, FORECASTING, MODELING, DATA PARSING, STATISTICAL ANALYTICAL SYSTEM.

Actuality – in Ukraine, reforms in all spheres of the state apparatus are constantly taking place. One of these reforms is the anti-corruption reform. Creating a system that can detect civil servants with abnormal earnings will help eliminate corruption from the highest levels. Thus, the development and scorecard of the declarant is relevant to date.

The object of study – Annual Declarations for 2017 are available on the website of the National Agency for the Prevention of Corruption.

The software product - implemented using Python and SAS programming language in the development environment of SAS ENTERPRISE GUIDE

Subject of research - predictive modeling techniques: regression models (including linear regression, ANOVA).

Purpose – creation of a program for handling a large number of declarations that will speed up the work of anti-corruption agencies to search for corruption schemes and predict the level of corruption in Ukraine.

The method of research – data parsing, review and analysis of regression analysis and correlation analysis.

Source material – bachelor research was published abstracts at conferences:

- All-Ukrainian Internet Conference of Higher Education Institutes and Young Scientists "Information Technologies: Theory and Practice".

The further development of the research subject – implementing of machine learning techniques, which automatically detect traces of crime.