

ABSTRACT

Master dissertation: 107 p., 34 fig., 8 tab., 2 sup., 23 sources.

Relevance: electronic documents have become a common stuff for today, but we still use manual check for assessing documents' standard compliance (articles, students' works). There are couple of libraries that give an ability to analyze electronic documents and even to modify them. Solution of the problem of manual check of works is creation of application, capable to analyze documents depending on input data and to return the same document with added comments about standard compliance errors presence. Application will support work with Word documents but will not require installed Word text processor.

Purpose: creation of software for design standard compliance check of qualification works and showing results in more convenient way.

To achieve this goal, the following tasks were formulated:

- perform an analysis of existing standards and approaches to analyze qualification works;
- collection of training data and formation of scheme of passing standards as input;
- analyze of existing software and their capabilities for analyzing and assessing text documents;
- implement application for analysis of qualification works for compliance check.
- testing and analysis of the effectiveness of the obtained method;
- determination of further direction of research.

Object of study: processes of text document analysis.

Subject of study: methods of text document analysis.

Research methods: an OpenXML document analysis library was used to solve this problem

Scientific novelty: The scientific result of the master's dissertation is the creation of an application for the analysis of qualifications' theses for compliance with design standards.

The practical value: is determined by the fact that the proposed software application allows you to speed up the process of evaluating the qualifications' works by not manual, but software design check.

Relationship with working with scientific programs, plans, topics: work was performed at the Department of Automated Information Processing and Management Systems of the Igor Sikorsky National Technical University of Ukraine «Kyiv Polytechnic Institute» within the topic «Detailed analysis of opportunities and work with OpenXML».

Approbation: The main provisions of the work were reported and discussed at the VI All-Ukrainian Scientific and Practical Conference of Young Scientists and Students «Information Systems and Management Technologies» (ISTU- 2020), the results of the master's dissertation were presented at scientific conferences.

Keywords: STANDARDIZATION, SEMANTIC ANALYSIS, COM (COMPONENT OBJECT MODEL), MICROSOFT WORD, OPENXML, ASP NET.