

## ABSTRACT

The thesis is presented in 50 pages. It contains 2 appendixes and bibliography of 15 references. 7 figures and 2 tables are given in the thesis.

The goal of the thesis is to find, analyze and use data models, methods of publishing and consuming web data to ensure effective integration data on the Internet for a company that creates and sells a variety of security services. In the thesis the problem area, namely the existing solutions of the problem and existing models of data presentation are analyzed. They are compared in terms of the possibilities of automatic search and analysis of special search applications.

Using the method of data presentation Linked Data has been designed and implemented mathematical and software system of publishing and consuming web data, which aimed at the solution of the problem.

Main ideas of the thesis were published in the Proceedings of the 9th Conference of young scientists “Applied Mathematics and Computing”.

Keywords: data model, publishing and consuming web data, Linked Data.