PhD Project Title

Detection of phishing web pages

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Categorization of the Project

Study Program: Applied Informatics/Applied Computer Science
Field of Study: 9.2.9  Applied Informatics/Applied Computer Science
Form of Study: full-time, part-time
Compulsory Study Units:
- Mathematical Principles of Applied Informatics
- Theory and Methodology of Applied Informatics
- Subject of Specialization

Project Specification

Problem Area Description:
Currently there are millions of web pages on the internet which lead to giving away the personal information, payment and other data of their users. Because of that, various ways of their detection such as methods based on the machine learning algorithms are being developed. Some of them are black boxes providing only detection while others also provide us with interpretable knowledge.

The goal of the project is to design new or improved methods for the detection of phishing web pages and to implement a related software tool. During the development of the methods, it will be important to test the accuracy of the detection of phishing web pages.

The proposed methods will be validated on available or collected data about legitimate and phishing web pages.

Expected Scientific Contributions:
Development of new methods and algorithms for the detection of phishing web pages. Experts will also be helped with understanding the properties of phishing web pages and the decision-making of users during their use of particular visited pages will be improved as well.

Recommended Methods:
Study of available literature, implementation of known techniques for the detection of phishing web pages, development of new or improved algorithms on the basis of available or collected data about legitimate and phishing web pages, and testing of the detection accuracy.

Information on Research

Type of Research:
applied research and experimental development

Research Task Whose Part This Project Will Be:
In connection with research projects running at the Department of Informatics.
Related Results Achieved at the Place of Studies Till Now:

Research and development in the area of algorithms for the detection of phishing has been started within solved tasks [1]. A software tool providing cutting-edge machine learning algorithms is being implemented [2], [3], [4].


