

## **ABSTRACT**

Masters' thesis: 125 pages, 26 tables, 16 figures, 1 appendix, 29 sources.

**CLUSTERISATION, TEXT VECTORISATION, TESTING, ERROR, DATA MINING.**

The object of this research is test results mining.

The subject of this research is test errors clustering system.

The purpose of this research is to develop an algorithm to clusterize the test results, which are presented in the form of test error messages.

The masters' thesis consists of six sections. In the first section the problem of test errors clustering is analyzed and formalized. In the second section existing text vectorization approaches are analyzed and compared. In the third section existing clustering approaches are investigated and analyzed. The fourth section describes the test error text messages vectorizing and clustering algorithm and developed program architecture. The fifth section contains algorithms execution results analysis. The sixth section explains the idea and the marketing strategy of a start-up project.