ABSTRACT

The thesis is presented in 42 pages. It contains 2 appendixes and bibliography of 15 references. 16 figures and 2 tables are given in the thesis.

The aim of this work is to create mathematical and software system of forecasting the risk of cardiovascular disease.

The paper considers methods such as decision trees, support vector method, regression analysis, and neural networks. On the basis of defined criteria for the solution of the problem set regression analysis.

Each patient medical parameter was calculated ratio utility. Automated system was developed that implements the method chosen. Tests developed system.

Keywords: forecasting risks, machine learning, regression analysis, in-depth training, and cardiovascular disease.