

SUMMARY

Zelikman A.V. “Optimization of financial state indicators of enterprise based on its financial reports”.

Graduate work. Institute for Applied Systems Analysis National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” specialty “Computer Science”. Department of mathematical methods of system analysis. Kyiv, 2017.

The goal of the work is developing software to optimize financial ratio analysis based on its financial statements that would contain the most useful functionality for the user in a convenient form.

The first section is about current state and features of mathematical methods and modeling in the economy given by the literature on mathematical modeling in general and, in particular, economic and mathematical modeling, mathematical methods are considered with their application in economy.

The second section provides a general description of the system of financial ratios and formed mathematical model that can be applied to the problem of optimizing financial ratio. For this model mathematical method was defined and should be used for optimization the enterprise performance. Formed mathematical model was used in the software development.

The third section describes the software, its technical specifications and solutions, instructions for the user.

The fourth section provides value-engineered analysis for developed software.

The main results are published in professional journals and were applied in the educational process and practice.

Analysts and business leaders while creating a plan of the company and making strategic decisions about the growth of the company can use the results of this work.