ABSTRACT

Thesis: 93 p., 17 tabl., 32 fig., 2 appends., 23 sources.

SUPPLIER, FUZZY DEMATEL, FUZZY ANP, SOLUTION SUPPORT SYSTEM, EFFECT MAP, GROUP FACTORS.

Object of research: the process of selecting a supplier for the needs of the project.

Subject of research: methods and means of selecting a supplier for a project.

The purpose of the thesis: to explore the methods and processes of selecting a vendor for projects for the transportation company based on the methods of the Fuzzy Decision-Making Trial and Evaluation Laboratory and the fuzzy based Analytical Network Process.

Results: the conceptual model of the supplier selection strategy for the projects was developed; the model of selection of supplier evaluation criteria has been improved by integrating the methods of fuzzy DEMATEL and fuzzy based ANP, created a tool that implements a single combined model without the help of third-party software, the method of selecting a supplier of projects has been developed, appropriate calculations have been made

The software product was developed using the C # programming language, the interface — using the Windows Form technology.