

## ABSTRACT

The thesis is presented in 81 pages, it includes 2 applications and a list of references to used sources of 11 items. This thesis includes 37 figures.

This work is devoted to development of automated control system of trucking strategies.

The paper made a comparative analysis of mathematical methods that provide the necessary resolve problems, in particular, considered and analyzed algorithms for finding the shortest path by which performed choice of optimal transport. Often the problem of choosing the optimal route solving by using algorithms such as:

- a) Dijkstra;
- b) Floyd–Warshall;
- c) Bellman-Ford.

The problem was to identify the main points that push carriers to the choice of certain strategies in the market and choosing the best option among them. Our goal is not just maximize profits cargo carrier, but minimizing its costs. Based on the criteria set out to solve this problem as an algorithm for implementation was chosen Dijkstra algorithm, which is very easy to implement and a simultaneous visibility provides good results.

Keywords: algorithm, automated control system, search the shortest path, trucking strategy.