

## **ABSTRACT**

Thesis: 150p., 67 fig., 10 tabl., 2 supplements, 38 sources.

Mobile application for finding the optimal path under conditions of multifactority.

**MOBILE APPLICATION, OPTIMAL PATH, SHORTEST PATH PROBLEM, COMPLEX ROUTES, APPLICATION FOR FINDING OPTIMAL PATH.**

In this work mobile application to be able to find the optimal path in a multifactor environment is developed.

The system is created on the basis of software analogues considered in the work: online resources and software applications. The shortcomings found in the analogues are taken into account and the significance of their impact on the work of the program and the convenience of its use. Best technical solutions have been used in this work. The ability to present data and usability were improved during this work.

Within the bounds of the thesis a mobile application, which allows to find the optimal path for several characteristics using public transport within Ukraine was developed.