## ABSTRACT

Thesis contains: 74 p., 10 tables, 37 fig., 2 add. and 16 references.

DATA MINING, INTELLECTUAL DATA ANALYSIS, PROBABILISTIC-STATISTICAL METHODS

The object of the study is the schedule of Boryspil airport.

The purpose of the thesis is to investigate the existing methods of data mining; find the most suitable for application method for forecasting flight delays.

The paper analyzes existing methods of forecasting flight delays: regression trees, classification trees, Bayesian classifier. During the execution of the thesis, the software product was created and the results for each of the methods were developed, their comparative analysis was carried out. In the course of the study, it was found that an approach using classification trees shows more accurate results.

When performing further research, it is advisable to start collecting additional data, such as the reason for the delays, and try to build models using these data.