

## ABSTRACT

Master's dissertation: 78 p., 16 figures, 27 tables, 31 sources.

**Topicality.** Stable work of the enterprise - confidence in the future not only of the head of this enterprise, but also of all employees. But in order for the company to work stably, the manager must be able to properly plan costs for "tomorrow". An experienced manager, guided by the main financial indicators of his company in most cases will be able to correctly predict the state of his company for tomorrow. But in some cases, even such leaders need help. In this case, the "Manager's Monitor" can help, which will conveniently and easily understand the state of the financial performance of a particular enterprise and will be able to forecast their state for the day, week or even a month ahead.

**Relationship of work with scientific programs.** The work was performed at the Department of Automated Information Processing and Control Systems of the National Technical University of Ukraine "Kyiv Polytechnic Institute. Igor Sikorsky" in the framework of the topic "Effective methods for solving problems of schedule theory" (State registration number 0117U000919).

**The purpose** of the study is improvement the accuracy of forecasting the state of financial indicators with the help of the subsystem "Monitor Monitor" system MASTER-accounting.

**To achieve the goal**, you must accomplish the following tasks:

- analyze the forecasting method used in the subsystem "Manager's Monitor";
- to improve the work of the forecasting method used in the subsystem "Manager's Monitor";
- to study the effectiveness of the improved method in comparison with the classical method;

— programmatically implement the developed method as a component of the "Monitor Monitor" system.

**The object** of research is the process of forecasting the financial state of an enterprise.

**The subject** of research is Methods of forecasting the financial performance of an enterprise.

**The scientific novelty** of the results obtained is to develop an optimized forecasting method for more accurate forecasting of the financial performance of the enterprise within the theme "Combinatorial optimization".

**Publications.** Materials of work were published in the international electronic scientific journal "Internauka", at the VI All-Ukrainian scientific-practical conference of young scientists and students "Information systems and management technologies".

HOLT-WINTERS METHOD, FORECASTING, MODIFICATION OF  
HOLT-WINTERS METHOD