

linearity, that is, the ability to establish non-linear dependencies between future and actual values of processes. Other important advantages are: adaptability, scalability and identity of their analysis and design. Therefore, this forecasting method was used in the work.

For effective management decision-making, the future values of the time series were first predicted. Time series analysis helped determine the nature of the series and predict future values of the time series. The detection of the structure of the time series is used to build a mathematical model for forecasting the volume of cargo transportation by rail. When forecasting a time series, a functional dependence is defined that adequately describes the time series. The goal of creating a forecasting model is to obtain such a model for which the average absolute deviation of the actual value from the forecast tends to the minimum for a given horizon, which is called the warning time. After the time series forecasting model was defined, the future values of the time series were calculated, as well as their confidence interval.

The forecast model formed using a neural network belongs to the high-accuracy class. Such a mathematical apparatus can be used to find predictive data on railway transport.

UDK 656.2

ANALYSIS OF THE LOGISTICS STRUCTURE OF INTERNATIONAL CONTAINER TRANSPORTATION

H. Bohomazova, PhD (Tech.), O. Shaihorodska
Ukrainian State University of Railway Transport (Kharkiv)

Container transportation is the basis of international trade. There is an exact science behind the timely and accurate transportation of cargo in containers by shipping routes around the world. This paper explores many aspects of container shipping, including the different modes of container shipping, the variety of containers, and more. The transportation of goods in containers makes it possible to unify transport technology, which makes this type of cargo delivery very attractive not only for sea lines, but also for motor vehicles and railways. Thanks to the versatility of containers, it is possible to transport almost all types of cargo. Container transportation of goods is rightfully considered not only the most economical, but also the most reliable way of delivering goods. Thanks to the application of modern logistics technologies and solutions, container transportation of goods makes it possible to ensure fast delivery with fewer

loading-unloading operations and minimal risk for the preservation of property of the cargo owners. These and other obvious advantages constantly stimulate the growth of demand for such a sought-after service as container transportation.

An urgent task is to research the technology of container transportation both on the territory of Ukraine and beyond, as well as the improvement of container trains to attract new container cargo flows.

The paper analyzes the functioning of the container transport system based on the principles of logistics, examines the conditions for the development of cargo transportation in containers, analyzes modern container trains, and considers the process of processing containers in seaports.

To promote the dynamic development of mixed transportation and improve the quality of customer service, based on the principles of global logistics, globalization of international trade, optimization of technological processes, the logistics structure of international transportation of goods in containers was formalized based on the application of mathematical methods of the theory of operations research and system analysis.

УДК 656.212.7

**ВДОСКОНАЛЕННЯ ТЕХНОЛОГІЇ ТА ТЕХНІЧНОГО
ОСНАЩЕННЯ ПУНКТІВ КОМЕРЦІЙНОГО ОГЛЯДУ СТАНЦІЇ**

**IMPROVEMENT OF TECHNOLOGY AND TECHNICAL
EQUIPMENT OF COMMERCIAL INSPECTION OF STATION**

О.В. Бондарюк, канд.техн.наук А.Л. Кравець

Український державний університет залізничного транспорту (м. Харків)

O. Bondariuk, A. Kravets, PhD (Tech)

Ukrainian state university of railway transport (Kharkiv)

Успіх роботи залізничного транспорту в умовах ринкової економіки багато залежить від фінансового благополуччя залізниць, збільшення доходів та зниження витрат. Важливим джерелом поліпшення фінансового стану є удосконалення та організація по новому пунктів комерційного огляду (ПКО) станцій, як однієї з найважливіших ланок вантажної та комерційної роботи транспорту.

В роботі розглянуто розрахунок бригад працівників ПКО. Найбільш вигідна технологія обробки составів визначається на основі техніко-