

MIA JURJEVIĆ, Ph.D. Candidate
(Corresponding author)
E-mail: miajurjevic@gmail.com
Vozilaće 12a, 51216 Viškovo, Croatia

SVJETLANA HESS, Ph.D.
E-mail: shess@pfr.hr
University of Rijeka, Faculty of Maritime Studies
Studentska 2, 51000 Rijeka, Croatia

Science in Traffic and Transport
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THE OPERATIONAL PLANNING MODEL OF TRANSHIPMENT PROCESSES IN THE PORT

ABSTRACT

Modelling of a traffic system refers to the efficiency of operations for establishing successful business performance by examining the possibilities for its improvement. The main purpose of each container terminal is to ensure continuity and dynamics of the flow of containers. The objective of this paper is to present a method for determining the amount of certain types of containers that can be transhipped at each berth, with the proper cargo handling, taking into account minimum total costs of transshipment. The mathematical model of planning the transshipment and transportation of containers at the terminal is presented. The optimal solution, obtained with the method of linear programming, represents a plan for container deployment that will ensure effective ongoing process of transshipment, providing the lowest transshipment costs. The proposed model, tested in the port of Rijeka, should be the basis for making adequate business decisions in the operational planning of the container terminal.

KEY WORDS

operational planning; transshipment processes; optimal plan of container transshipment;

1. INTRODUCTION

An increased competition between seaports, especially between geographically close ones is a result of development of the container traffic, that imposes the necessity of better quality process for handling and storage of containers and impeccable organization of tasks at container terminals. The container terminal is a dynamic, open system with stochastic and unpredictable external factors. For this reason, systematic approach is required in the process of planning. The terminal should elaborate a plan for the process of container transshipment. The oscillations of transshipment of goods in ports are conditioned by unequal arrival of container ships and uneven duration of operations with containers. Due to unevenness of container traffic, the efficient planning for transshipment of container operations is recommended for shorter periods of time, not for longer terms (e.g. a year). This type of planning is considered as operational planning that

comprises the plan of taking over operations, layout of human resources and means necessary to perform these chores.

The problem is defined by two types of cargo loaded on two different berths of the container terminal. Three different modes of cargo handling have been applied.

The basic objective of this paper is to show the efficient way of organizing the transshipment process. In other words, to determine the quantity of certain type of cargo being transhipped at each berth and in the appropriate way. This will be conducted in the observed period of time, providing the lowest possible transshipment costs. The need for optimization using methods of operations research in container terminal operation has become more and more important. In order to accomplish this objective, a mathematical model is presented, so called multi-index transportation problem. The mentioned problem has been solved by applying the method of linear programming.

The optimal solution represents a plan for container deployment that will ensure effective ongoing process of transshipment at a port, taking into consideration the lowest possible costs. Based on the mentioned plan, it is possible to determine which means of transport is capacitated or has insufficient capacity. In operational planning, the application of the chosen model enables achieving the maximum of the mutual compatibility of adequate utilization of berths, port mechanization and employees of the terminal [1, 2].

One of the most important tasks for the successful operation of the container terminal is the selection of an appropriate process of transshipment and the type of transshipment means. The results here obtained can be a good base for decision-making in order to determine the optimal capacity of the necessary transshipment means. The model was tested at the port of Rijeka, taking into account the existing resources, available transshipment means and workers who participate in the process of transshipment.

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