SOLVING CONTAINER TERMINALS PROBLEMS USING COMPUTER-BASED MODELING

GAMAL ABD EL-NASSER A. SAID, ABEER M. MAHMOUD & EL-SAYED M. EL-HORBATY

Department of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Egypt

ABSTRACT

This paper addresses the applications of different techniques for solving container terminals problems. We have built a simulation model that can be used to analyze the performance of container terminal operations. The proposed approach is intended to be applied for a real case study in Alexandria Container Terminal (ACT) at Alexandria port. The implementation of our approach shows that a proposed model increases the efficiency of Alexandria container terminal at Alexandria port.

KEYWORDS: Container Terminal, Discrete Event Simulation, Optimization, NP-Hard Problems