

Abstract

Container loading problem is an issue that talks about the box-shaped item that is loaded into a container which is also shaped box with fixed dimensions which the capacity of the container will be used as fully as possible to load the goods. These include container loading problem into a combinatorial problem that has broad problem space. At the final project, the solution space for this problem be represented in the chromosomes. By using Discrete algorithms Fast Marriage in Honey Bee (DFMBO3) (Salim 2010) the chromosome will be manipulated to produce an optimal solution for this problem. One such algorithm is the process by using the logical operator XOR, OR and AND instead of subtraction, addition and multiplication. From the test results, results that obtained are quite optimum for each case.

Keywords: *container loading problem, combinatorial, optimization, Discrete Fast Marriage in Honey Bee (DFMBO3) algorithms.*