

OPTIMUM ALLOCATION OF BERTHS TO BAYS

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ABSTRACT

Maritime container terminals are facilities where cargo containers are trans shipped between ships or between ships and land vehicles (trucks or trains). These terminals involve a large number of complex and combinatorial problems. The problem of berth allocation is such a problem. The terminal operator normally demands all containers bound for an incoming vessel to be ready in the terminal before its arrival. Similarly, customers (i.e., vessel owners) expect prompt berthing of their vessels upon arrival.

In this paper, assignment model is used for optimizing the berth allocation problem. The algorithm for solving the berth allocation problem generates an optimized order of vessels to be served. This technique will minimize disruptions and facilitate planning in container terminals.

KEY WORDS: Berth allocation, Assignment Model, transportation time.