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# Efficient Trading Conditions for Foldable Containers at Railway Stations

Do foldable containers reduce repositioning costs?

In our ECR problem, the shipping company considers both transporting loaded containers and repositioning of empty containers over a planning horizon. Because empty repositioning incurs costs and consumes vessel capacity, foldable containers are used to reduce repositioning costs.

Can foldable containers be used in maritime transportation?

Computational results show that the proposed formulation performs well in terms of operating costs and there exists a significant cost-saving effect when foldable containers are used in maritime transportation. Previous article in issue Next article in issue Keywords OR in maritime industry Empty container repositioning Foldable container

Does transport/repositioning cost affect a cost-saving effect with foldable containers?

With varying transportation and repositioning costs, we observe a tight performance gap and a significant cost-saving effect using foldable containers. Table 6. Computational results with different transport/repositioning costs. Empty Cell Empty Cell Expected Cost Time (s)

How to reduce the cost of repositioning empty containers?

There are many efforts to reduce the cost of repositioning empty containers, one of which is a foldable container. Foldable containers can be transported in a package such that a few folded containers occupy the same volume as one standard container.

Abstract In order to solve the problem of empty container reposition considered foldable containers, the key factors affecting the use of foldable containers are found out. The ...

This study seeks to explore the effectiveness of employing foldable containers (FLDs) in liner shipping to reduce relocation and the ...

A five-in-one foldable container design could boost efficiency and transform the carriages of empties, claims Florida-based Compact Container Systems (CCS).

Because of the extreme imbalance in intercontinental trade, the repositioning of empty containers creates a significant problem for shipping companies. There are many efforts ...

Under these conditions, folding and unfolding the container (including complementary depot activities) should cost \$ 177 per roundtrip, in order to have equal chain ...

Through three cases: only using standard containers, only using foldable containers, and using standard containers and foldable containers for modeling and analysis, ...

These hubs utilize block train operations for full-train transportation and return ECR while promoting container substitution strategies under suitable conditions to accelerate turnover ...

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This study seeks to explore the effectiveness of employing foldable containers (FLDs) in liner shipping to reduce relocation and the empty containers and bunker costs (BCs) ...

The transportation demand and positioning of railway stations affect its role in the network; thus, the demand and convenience of the station must be assessed to cope with the ...

Abstract This paper analyzes the effect of foldable containers in various circumstances. Recently, as a result of the COVID-19 pan-demic, many unexpected situations ...

This established model considered sea-land intermodal transportation, uncertain empty container demand and foldable containers.

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