

Title: Efficient Trading Conditions for Foldable Containers at Railway Stations

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How does rail transportation affect the cost of empty container repositioning?

It can be seen that rail transportation plays a crucial role in controlling the total cost of empty container repositioning. The total cost shows a general increase as the train capacity decreases. -100% indicating the absence of rail transportation, it leads to an increase in total cost.

Are foldable containers effective in repositioning empty containers?

Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were commercialized without clear breakthrough in the market and most current researches are still limited to small pilot projects.

How do we transport empty container repositioning?

We subdivide container freight stations into rail stations and road stations and consider using sea, road, and railway as transportation modes to transfer empty containers. A multi-period linear programming model of multimodal empty container repositioning is established aiming at minimizing the cost of empty container repositioning.

What are the conditions for the success of foldable containers?

Konings and Thijs summarized clearly the conditions for the success of foldable containers in the market: (1) low costs for folding and unfolding the containers; (2) low manufacturing costs; (3) compatibility with existing equipment for intermodal transport; and (4) structural robustness.

There are many efforts to reduce the cost of repositioning empty containers, one of which is a foldable container. This paper proposes a robust formulation for the empty container ...

Using complex network models, community structures, GE matrix models, and the "center-periphery" theory, this study analyzes the evolutionary characteristics and coordination ...

This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable containers with more advanced designs. A ...

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Using foldable containers could reduce the total cost of empty container repositioning. With the improvement of service level, the numbers of empty container repositioning increased owing to...

We subdivide container freight stations into rail stations and road stations and consider using sea, road, and railway as transportation ...

We analyze the effects of foldable containers using a newly developed multi-port and multi-period container planning model. The proposed model is a large-scale optimization problem, for ...

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