
Monrovia Foldable Container Network Type

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 to solve the endemic problem of relocating empty containers?

In order to solve the endemic problem of relocating empty containers due to the imbalance in trading volume between continents, a new foldable container that can be folded to 1/5 of its height where five containers can be bundled to one was developed.

How to solve a minimum-cost multi-commodity network flow problem?

This resolves a minimum-cost multi-commodity network flow problem by optimizing container fleet size and empty container relocation in a multi-port shipping service network. Port handling time and sailing speed provided by obtained optimal solutions enable the determination of ship BCs as a secondary step.

Are foldable containers economically viable?

In order to examine the economic viability of the developed foldable container as compared to a standard 40-ft high-cube container, cost analysis is performed for an example route, i.e., the Busan-Vostochny-Moscow route (Fig. 10), which involves both inland and maritime transportation.

This paper addresses a problem of ship type decision considering empty container repositioning and foldable containers, which ...

To guarantee a certain level of reliability in foldable container operations, this study focused on designing a reliable container network against facility failure for foldable containers.

This paper addresses a problem of ship type decision considering empty container repositioning and foldable containers, which determines the capacity of ships deployed in a ...

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 ...

The results show that introducing foldable containers into empty container repositioning along a river can utilize vessel space more effectively and decrease the total cost ...

A facility failure of foldable containers has been considered in a container shipping network. Proposed how to design a failure pattern in an objective function. Developed an IP model for a ...

In this paper, we propose an empty container repositioning model in the intermodal transportation network of Belt and Road (B&R) Initiative by considering both standard and ...

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However, their facilities are vulnerable to unfavorable events caused by disruptive events, and often experience complete failure in practice. To guarantee a certain level of ...

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A novel integer linear programming formulation for the problem of reliable facility location with foldable containers is proposed by designing an objective function with failure patterns. In this ...

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