

Monrovia Foldable Container Network Type





Overview

River-sea intermodal transport is becoming increasingly popular for container repositioning in hinterland areas, owing to its cost-efficiency and low energy consumption. However, bridge heights and water.

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.



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