

High-Efficiency Alternative Solution for Foldable Containers





Overview

Are foldable containers a good investment?

Despite high purchase costs and the additional folding and unfolding costs of foldable containers, foldable containers have advantages in the reduction of repositioning costs and saving in terms of storage space and vessel capacity.

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.

Are foldable containers a competitive advantage?

The performance gap is tight and endurable for robustness and tractability. In addition, the computation time of the RLDR formulation is shorter than that of the LDR formulation, which reflects a competitive advantage in practice. Finally, we observed that operating costs can be reduced significantly by using foldable containers. 5.4.

What are some examples of foldable containers?

One successful example of adoption of foldable containers is the Shanghai-Los Angeles-Chicago route served by APL (Holland Container Innovations, 2019a). The exports in Chicago are much less than imports, which incurs huge amount of empty repositioning.



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