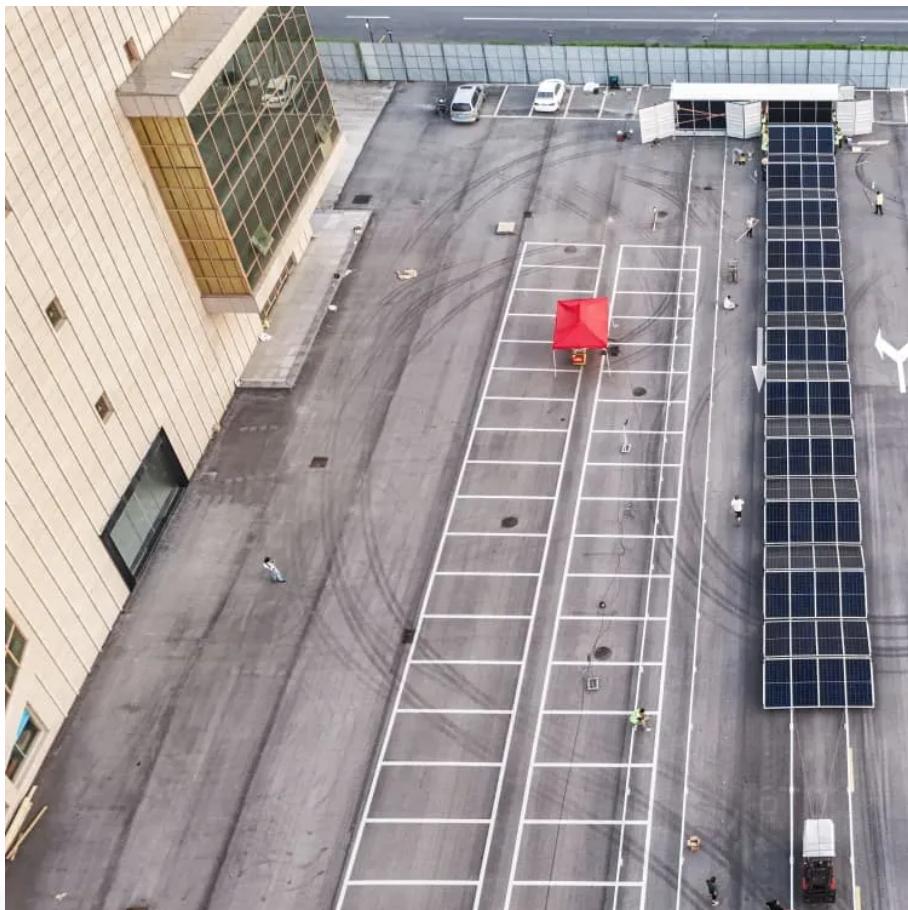




MODERNIZATION SOLAR

# Intelligent Folding Container for Railway Stations





## Overview

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Do mobile machinery configurations and railway yard operations affect container transportation?

In summary, many researchers have studied the mechanical scheduling of key steps in the container transportation process such as ship loading/unloading and container stacking in ACTs from different perspectives, but few studies have been conducted on the combination of mobile machinery configurations and railway yard operations.

How to reduce the impact of the Central railway station?

To reduce the impact on the operation of the central railway station, an IGV from the front yard must actively yield when it intersects with an IGV from the RYACT. This study can help to provide a reference for resource conservation and avoiding collisions at ports.

Are rail gantry cranes safe and non-crossing?

In order to reflect the complex interactions between pieces of terminal equipment such as rail gantry cranes (RGCs), IGVs, and double-cantilever rail cranes, Li, Yan, and Xu included safe-distance and non-crossing constraints.

Does increasing the number of IGVs improve the efficiency of railway yard?

The experiment revealed that increasing the number of IGVs can improve the efficiency of the railway yard, but the influence of increasing the number to a certain value on the overall task completion time of ARMGs is reduced, and the appropriate number of IGVs should be configured during task scheduling.



## Intelligent Folding Container for Railway Stations



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