

<div class="df_qntext">Can a mathematical model solve a real-life problem of empty container inspection & repair?

This paper and our earlier paper (Kovalyov et al., 2023) are the first attempts to provide mathematical models, algorithms and experimental software to solve real-life problems of optimal planning empty container inspection and repair according to the time-dependent container arrivals and demands.

<div class="df_qntext">Who financed the project empty containers repair & maintenance processes optimization?

The research of Katarzyna Kuzmicz and Erwin Pesch was carried out in the frame of the project Empty containers repair and maintenance processes optimization in a seaport depot co-financed by the Polish National Agency for Academic Exchange (NAWA) PPN/BDE/2020/1/00026/U/00001 and by DAAD, Germany (Project-ID: 57561830), respectively.

<div class="df_qntext">Why should a Container Supply Chain Work Plan be analyzed?

The high level of uncertainty and deviation in quantities of different container types and damage levels arriving at the container provider is the issue that should be considered. Additionally, the aspect of robustness to disturbances in the container supply chain, which affect the work plan should be analyzed.

<div class="df_qntext">Why is uncertainty important in container inspection & repair planning?

A challenging task for future research is to address the uncertainty in different aspects of container inspection and repair planning. The high level of uncertainty and deviation in quantities of different container types and damage levels arriving at the container provider is the issue that should be considered.

<div class="df_qntext">Why do we need a fast repair & provision of empty containers?

Usable empty containers are scarce and the cost of their transportation has more than doubled in recent years. Fast repair and provision is therefore of utmost importance from an environmental point of view and in the supply chain for on-time empty containers delivery to exporters ready to load them.

<div class="df_qntext">Why are empty containers important in busy sea ports?

In busy sea ports the provision of empty containers ready to use is highly important to prevent delays which can contribute to disturbances in the whole supply chain and port operation.

ABSTRACT The interdependence of container shipping operations (CSOs) creates a hotbed of multiple operational risks. Risk analysis and ...

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Based on a thorough study of the practical problem at a container provider company located at a sea port we introduce a model for optimal planning of container inspection and repair. ...

AbstractSolar power is sustainable and one of the mainstream resources for meeting power demands. It has emerged as the most adaptable solution to energy access and security ...

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ICT Requirements Analysis for Enterprise Networks Supporting Solar Power Plants. In: Camarinha-Matos, L.M., Xu, L., Afsarmanesh, H. (eds) Collaborative Networks in the Internet of Services.

The "14th Five-Year Plan" for Green Transportation Development issued by the Ministry of Transport proposes that by 2025, the proportion of new energy container trucks in ...

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can also avoid possible problems such as path conflicts or vehicle ...

There is urgency for electrifying fleet vehicles as a means to reach net-zero emissions and promote sustainability, including at maritime container ports. Ports are exploring the incorporation ...

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