Research on new solar container algorithms

The results indicate that hyper-heuristic algorithms outperform heuristic algorithms in terms of solution quality and stability, effectively satisfying the storage requirements of the yard while ...

Therefore, in order to advance research in this important and growing area of research, it is crucial to study the landscape of existing container scheduling techniques and understand their ...

The graph and hypergraph container methods are powerful tools with a wide range of applications across combinatorics. Recently, Blais and Seth (FOCS 2023) showed that the graph ...

Project Suncatcher is a moonshot exploring a new frontier: equipping solar-powered satellite constellations with TPUs and free-space optical links to one day scale machine learning ...

Following this line of research, we propose an alternative dynamic programming model by redefining the bay representation and adjusting the formulations accordingly. The results show that the new model ...

This paper presents an interdisciplinary, novel approach for incorporating day-ahead solar forecast obtained using numeric models into a real-time simulation framework for low-voltage ...

Moreover, advances in AI technology and hardware upgrades will lead to the rapid global popularization of new energy sources such as solar energy, which is expected to replace traditional energy sources.

Abstract This research proposal presents a comprehensive framework for developing AI-enhanced Internet of Things (IoT) systems to optimize predictive maintenance strategies and improve ...

TL;DR: A new differential edge detection algorithm is used to realize binary segmentation of uneven illumination container number image, and the problem of accurate location of ...

Container stowage planning (CSPP) is a critical component of maritime transportation and terminal operations, directly affecting supply chain efficiency. Owing to its complexity, CSPP has traditionally ...

In container retrieval, early research primarily utilized mixed-integer linear programming (MILP) models, such as the CRP series, to optimize bounds and solution strategies [5-7]. Recent studies have ...

This paper tackles the Container Relocation Problem with Storage Plan (CRPSP) by integrating exact algorithms and reinforcement learning. We formulate the problem with a mixed ...

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Overview o Research explores deep reinforcement learning for solving complex container ship stowage problems o Benchmark study comparing multiple advanced machine learning algorithms o Aims to ...

The container relocation problem is one of important issues in seaport terminals which could bring a significant saving on the operating cost even with a slight improvement due to the huge number of ...

In this paper we consider the three-dimensional problem of optimal packing of a container with rectangular pieces. We propose an approximation algorithm based on the "forward state strategy" of ...

Overview Research tackles container rearrangement optimization in shipping terminals Introduces enhanced search algorithm with improved efficiency Tests performance on unrestricted ...

/ New models and algorithms for the container stack rearrangement problem by yard cranes in maritime ports. In: EURO Journal on Transportation and Logistics. 2017 ; Vol. 6, No. 4. pp. 307-348.

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