

Whether the solar container project participates in scheduling

Is there a collaborative scheduling problem in automated container terminals?

Therefore, this paper investigates the collaborative scheduling problem of yard equipment in each operation stage of an automated container terminal, proposes charging-swapping mode for AGV energy replenishment, and develops a mixed integer programming model to minimize equipment no-load energy consumption and operational delay costs.

Are there conflicts of interest in automated container terminal scheduling?

The author declares that there are no conflicts of interest. This paper was supported by Humanities and Social Sciences Research Youth Fund Project of Education Ministry of China (18YJCZH116): Research on Integrated Optimization of Automated Container Terminal Scheduling under Uncertain Environment.

What is integrated scheduling of automated container terminal equipment?

Thus, the research of the integrated scheduling of automated terminal equipment is of a great significance to improve terminal efficiency. The operation equipment at automated container terminal includes Quay Cranes (QCs), Automatic Guide Vehicles (AGVs), Automatic Stacking Cranes (ASCs), and Yard Trucks (YTs).

Do container terminals need coordinated scheduling?

A container terminal plays a significant role in global supply chain. Coordinated scheduling is one of the most important issues for sustainable development of container terminals. This research provides an in-depth survey of the coordinated scheduling for container terminals in order to identify existing research streams for future investigations.

What is the optimal scheduling model for automated container terminals?

In order to realize the optimal scheduling of the whole system, Le and Zhang proposed a new joint scheduling model of QCs, AGVs, and stacking cranes, which took the whole transportation system of the automated container terminal as the research object.

Can a common container terminal be scheduled separately?

In traditional research, there were many studies on scheduling of common container terminals, most of which concentrated on the operation of QCs, YTs, and Yard Cranes (YCs) separately.

The soaring energy demands of large-scale software ecosystems and cloud data centers, accelerated by the intensive training and deployment of large language models, have driven ...

Solar power projects are complex and challenging to schedule, as they involve multiple stakeholders, technical requirements, environmental factors, and regulatory compliance. However, ...



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As a result, containers can be much smaller in size and can be deployed faster [14]. Docker [29] is an open source project that provides an implementation of Linux ...

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There are many aspects of shipping network optimisation, such as port selection, routing and scheduling, ship assignment and scheduling, and container movement. Tran and Haasis (2013) ...

The simultaneous scheduling of quay cranes (QCs), automated guided vehicles (AGVs), and yard cranes (YCs) in automated container terminals (ACTs) has been a critical problem. ...

To overcome these challenges, a short-term co-scheduling model for hydro-wind-solar-PSHP hybrid energy system (SHWSSCMM) considering the variable-speed unit (VSU) strategy and ...

Aiming at the two-stage bidding scheduling model for wind power participation in the day-ahead and real-time market, the first stage uses QGA (quantum genetic algorithm) [21], [22], [23] ...

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