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**Optimal Scheduling for the Inland Transport of Containers: Facing the Trade-off of Costs, Efficiency and Sustainability**

Abstract

We present an allocation model for a particular container supply chain where multiple sea terminal quays and a hinterland terminal are considered. From the moment a container is dropped off from the vessels at the sea terminals, several options for the final transportation to the hinterland can be considered: trucks, barges and trains. The logistic planner decides the best allocation for the containers to the available means of transport. The objective is to minimize the costs for the transportation while guaranteeing a high service level and low congestion at the sea terminal.