

A Liner Shipping Network Design Routing And Scheduling Considering Environmental Influences

A Base Integer Programming Model and Benchmark Suite for ... Competitive Liner Shipping Network Design - ScienceDirect Methods for strategic liner shipping network design ... Liner shipping service network design with empty container ... A Liner Shipping Network Design - Routing and Scheduling ...

A Liner Shipping Network Design A flow-first route-next heuristic for liner shipping ... Global intermodal liner shipping network design ... Liner shipping hub network design in a competitive ... A Liner Shipping Network Design - Routing and Scheduling ... A Path Based Model for a Green Liner Shipping Network ... Global intermodal liner shipping network design A Path Based Model for a Green Liner Shipping Network Design A benchmark suite for liner shipping network design ... Methods for strategic liner shipping network design A Liner Shipping Network Design | SpringerLink Liner shipping network design with deadlines - ScienceDirect A new formulation for the liner shipping network design ... Ship Scheduling and Network Design for Cargo Routing in ...

A Base Integer Programming Model and Benchmark Suite for ...

A benchmark suite for liner shipping network design problems and a parser for the instances in c++ ===== This is the benchmark suite for liner shipping network design described in "Brouer, Berit D.; Alvarez, J. Fernando; Plum, Christian Edinger Munk; Pisinger, David; Sigurd, Mikkel M.

Competitive Liner Shipping Network Design - ScienceDirect

Maersk network. Keywords: Transportation, liner shipping, network design, scheduling 1. Introduction Seaborne shipping is the most important mode of transport in international trade. More than 80% of the international trade in 2010 is transported over sea (UNCTAD (2010)). In comparison to other modes of freight transport, like truck, aircraft ...

Methods for strategic liner shipping network design ...

Most of the existing studies on liner shipping network design studies deal with port-to-port origin-to-destination (OD) pairs, meaning that both the origin and the destination of each OD pair are sea ports. Yet, in practice, most of the cargo demand originates from inland locations. For example, Chicago is not a sea port.

Liner shipping service network design with empty container ...

Other works addressing liner shipping network design, but not necessarily the hub-and-spoke design, include Choong et al. (2002) for empty container management for intermodal transportation networks. For a recent survey of models, applications and solution methods for network hub location problems, we refer to the survey by Alumur and Kara ...

A Liner Shipping Network Design - Routing and Scheduling ...

The liner shipping network design delivers schedules and routes for ships that continuously visit harbours on a closed round trip. Examples of such ships are container ships that in many cases maintain a weekly harbour visiting frequency.

A Liner Shipping Network Design

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A flow-first route-next heuristic for liner shipping ...

A common problem faced by carriers in liner shipping is the design of their service network. Given a set of demands to be transported and a set of ports, a carrier wants to design service routes for its ships as efficiently as possible, using the underlying facilities.

Global intermodal liner shipping network design ...

In the tactical-level liner shipping service network design problem, the delivery of both laden and empty containers should be accounted for. Otherwise if only laden containers are considered, the designed liner shipping network may not service the empty containers in a cost-effective manner.

Liner shipping hub network design in a competitive ...

The most successful algorithms for liner shipping network design make use of a two-phase approach, where they first design the routes of the vessels, and then flow the containers through the network in order to calculate how many of the customers' demands can be satisfied, and what the imposed operational costs are.

A Liner Shipping Network Design - Routing and Scheduling ...

The liner-shipment network design problem is to create a set of nonsimple cyclic sailing routes for a designated fleet of container vessels that jointly transports multiple commodities. The objective is to maximize the revenue of cargo transport while minimizing the costs of operation.

A Path Based Model for a Green Liner Shipping Network ...

A liner shipping carrier's network consists of a set of liner services that can be either operated by the carrier itself or by a partner. A service i is defined as a list of edges between ports that perform a round trip $S_i = ((o_1, d_1), (d_1, d_2), \dots, (d_{n-1}, o_1))$ and have a maximum duration for each

Global intermodal liner shipping network design

The liner shipping network can be viewed as a transportation system for general cargo not unlike an urban mass transit system for commuters, where each route (service) provides transportation links between ports and the ports allow for transshipment in between routes (services).

A Path Based Model for a Green Liner Shipping Network Design

Since most of the existing solution methods for liner shipping network design only deal with seaborne port-to-port demand, it is necessary to convert all inland OD demand into port-to-port demand, in order to apply the liner shipping network design methods.

A benchmark suite for liner shipping network design ...

The Liner Shipping Network Design Problem (LSNDP) aims to optimize the design of the networks to minimize cost, while satisfying customer service requirements and operational constraints. The mathematical formulation of the LSNDP may be very rich as seen in L'fstedt et al. (2011), where a com-

Methods for strategic liner shipping network design

textabstractIn this paper the combined fleet-design, ship-scheduling and cargo-routing problem with limited availability of ships in liner shipping is considered. A composite solution approach is proposed in which the ports are first aggregated into port clusters to reduce the problem size.

A Liner Shipping Network Design | SpringerLink

It is crucial for a liner shipping company to design its container shipping network. Given a set of port-to-port container shipment demands with delivery deadlines, the liner shipping company aims to design itineraries of portcalls, deploy ships on these itineraries and determine how to transport containers with the deployed ships in order to maximize its total profit.

Liner shipping network design with deadlines - ScienceDirect

We present a solution method for the liner shipping network design problem which is a core strategic planning problem faced by container carriers. We propose the first practical algorithm which explicitly handles transshipment time limits for all demands.

A new formulation for the liner shipping network design ...

Abstract. We show a strategic liner shipping network design decision support system which takes into account three environmental influences: waves, currents and wind. Our model will answer the question, whether environmental influences and the use of additional propulsion systems can influence the cost structure or the on-time delivery...

Ship Scheduling and Network Design for Cargo Routing in ...

The liner shipping network design problem (LSNDP) is an important problem within liner shipping because a good network can reduce costs and increase profits.

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