

A Liner Shipping Network Design Routing And Scheduling Considering Environmental Influences

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A Liner Shipping Network Design

The liner shipping network design problem (LSNDP) can be defined as follows: Given a collection of ports, a fleet of container vessels and a group of origin-destination demands, a set of services is constructed for the container vessels such that the overall operational expenses are minimised, while ensuring that all demands can be routed through the resulting network from their origin to their destination, respecting the capacity of the vessels.

Liner shipping network design - ScienceDirect

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 - Routing and Scheduling ...

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A Liner Shipping Network Design | SpringerLink

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

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

Given a fleet of container vessels and a selection of ports, the classical Liner Shipping Network Design Problem (LSNDP)constructs a set of scheduled routes (services) with a fixed frequency for container vessels to provide transport for containers worldwide (Brouer et al., 2014a).

Competitive Liner Shipping Network Design - ScienceDirect

We propose a problem formulation that integrates service scheduling into the liner shipping network design problem. Furthermore, the model incorporates many industry-relevant modeling aspects: it allows for leg-based sailing speed optimization, it is not limited to simple or butterfly-type services, and it accounts for service-level requirements such as cargo transit time limits.

Integrated Liner Shipping Network Design and Scheduling ...

We present an integer programming based heuristic, a matheuristic, for the liner shipping network design problem. This problem consists of finding a set of container shipping routes defining a capacitated network for cargo transport. The objective is to maximize the revenue of cargo transport, while minimizing the cost of operating the network.

[PDF] A matheuristic for the liner shipping network design ...

itive Liner Shipping Network Design” project and carried out in cooperation with Maersk Line, who has contributed to the discussion of the models and provideddatasuchthatthemethodsaretestedunderrealisticconditions.

Competitive Liner Shipping Network Design

A model was developed for network design of a shipping service for large-scale intermodal liners that captured essential practical issues, including consistency with current services, slot purchasing, inland and maritime transportation, multiple-type containers, and origin-to-destination transit time.

Network Design for Shipping Service of Large-Scale ...

The central problem treated in this thesis is that of designing and maintaining a service network in a liner container shipping context. Based on a unified description of the individual planning processes involved in the definition of the liner container service network design (SND) problem, a series of integrated models for the SND problem are developed in an iterative fashion.

Service Network Design and Management in Linear Container ...

One of the most important strategic decisions of a liner shipping company is the design of a set of cyclic routes, services, for container vessels to provide transport for goods from origins to destinations. This problem is called the liner shipping network design problem (LSNDP).

Analyzing complex service structures in liner shipping ...

The liner-shipping 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 Base Integer Programming Model and Benchmark Suite for ...

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...

Liner shipping network design with deadlines | Request PDF

The hub-and-spoke (H&S) liner shipping network design problem with uncertain container demand is one of the risk management issues in the liner shipping industry. This paper provides a methodology to deal with this problem, which ensures that the designed H&S liner shipping network can satisfy the shipping requirement of shippers at least with a predetermined service-level.

Hub-and-Spoke Liner Shipping Network Design with Demand ...

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.

Produktion und Logistik Ser.: A Liner Shipping Network ...

(2017). Formulating cargo inventory costs for liner shipping network design. Maritime Policy & Management: Vol. 44, No. 1, pp. 62-80.

Formulating cargo inventory costs for liner shipping ...

Green Liner Shipping Network Design refers to the problems in green logistics related to the design of maritime services in liner shipping with a focus on reducing the environmental impact. This chapter discusses how to more efficiently plan the vessel services with the use of mathematical optimization models.

Green Liner Shipping Network Design — DTU Research Database

A matheuristic for the liner shipping network design problem. The authors present an integer programming based heuristic, a matheuristic, for the liner shipping network design problem. This problem consists of finding a set of container shipping routes defining a capacitated network for cargo transport.

A matheuristic for the liner shipping network design problem

Existing methods for liner shipping network design mainly deal with port-to-port demand. However, most of the demand has inland origins and/or destinations. Thus, it is necessary to cope with inland origin-destination (OD) pairs involving a change in transport mode from inland transportation to maritime shipping. A method is first proposed to convert inland OD demand to port-to-port demand. Then, a framework for global intermodal liner shipping network design is proposed.

CiteSeerX — Global intermodal 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 (Løfstedt et al. 2010), where a compact formulation along with an extensive set of service requirements and network restrictions is presented.

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