

## 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 can briefly be described as follows: Given a set of demands (defined by origin, destination, time limit) and a set of vessels with variable capacity, the task is to design a set of weekly services, assign vessels to the services, and flow the demand through the resulting network such that it arrives within the stated time constraints. The objective is to maximize revenue of transported demand subtracting the operational costs.

### 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. Given sets of ports, vessel classes, and demands between the ports, the problem is to design a network of cyclic routes and assign a vessel class to each route so that all demands can flow through the network at minimal cost.

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

In the shipping service sector one can distinguish between two main types of shipping: line – and tramp shipping. Line shipping is the type of cargo shipping which is most often used by shipping companies in the con-tainer sector. Other than in tramp shipping, vessels are sailing according to fixed routes and time-schedules.

### Creating a Liner Shipping Network Design

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 | SpringerLink

This paper proposes a liner hub-and-spoke shipping network design problem by introducing the concept of a main port, as well as some container shipping constraints such as multi-type container shipment and transit time constraints, which are seldom considered in the previous studies.

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## **Liner hub-and-spoke shipping network design - ScienceDirect**

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 ...**

A Liner Shipping Network Design – Routing and Scheduling Impacted by Environmental Influences  
Network Design and Allocation Mechanisms for Carrier Alliances in Liner Shipping Richa Agarwal

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

GLOBAL INTERMODAL LINER SHIPPING NETWORK DESIGN ABSTRACT This paper presents a holistic analysis and useful software for the network design problem of the intermodal liner shipping system. The existing methods for liner shipping network design mainly deal with port-to-port demand. However, a large proportion of the

## **Global intermodal liner shipping network design**

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

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

Formulating cargo inventory costs for liner shipping network design. Shuaian Wang Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University, Kowloon, Hong Kong  
Correspondence wangshuaian@gmail.com hans.wang@polyu.edu.hk. Pages 62-80 Published online: 24 Oct 2016.

## **Formulating cargo inventory costs for liner shipping ...**

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 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 ...**

According to that situation, liner shipping companies needs a service network design which accomodate demand on each ports and give maximum profit. This research uses stochastic modeling to best portray the real condition of maritime logistics by taking demand uncertainty into consideration.

## **Designing liner shipping network in Indonesia with demand ...**

Existing liner shipping networks feature a great diversity in types of liner services and a great complexity in the way end-to-end services, line bundling services and...

## **(PDF) Developing Liner Service Networks in Container Shipping**

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.

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

Current state-of-the-art models and methods (e.g. Karsten et al., 2017) for liner shipping network design problems only determine the routes and sailing speeds for individual services, but

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approximate transshipment times by a constant. In practice, the transshipment time between two services depends on how well the schedules of the individual ...

### **Integrated Liner Shipping Network Design and Scheduling ...**

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.

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