

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 ... 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 | 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 ... Not only attempts to reduce costs but also emissions are driving shipping companies to operate their fleet in slow steaming mode. We show a strategic liner shipping network design decision support system which takes into

account three environmental influences: waves, currents and wind. A Liner Shipping Network Design – Routing and Scheduling ... 1. Introduction. 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). This paper presents the Competitive Liner Shipping Network Design Problem (CLSNDP) extending the ... Competitive Liner Shipping Network Design - ScienceDirect eet 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 xed frequency for container vessels to provide transport for containers worldwide (Brouer et al., 2014a). Competitive Liner Shipping Network Design 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. A matheuristic for the 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 ... Liner services are announced in advance to attract potential customers. Customers

can arrange the delivery of their cargo based on the available date of the cargo at the origin port and the expected arrival date at the destination port.

Therefore, container liner shipping is of significant importance to the global supply chain network. [PDF] Schedule design for liner shipping networks with ... Abstract 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. Ship Scheduling and Network Design for Cargo Routing in ... 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 ... 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 defines the liner services in a strategic or tactical planning horizon. A service is a sequence of ports that performs a round trip. Additionally, vessels are deployed on the service, such that a weekly port call frequency is obtained. The liner shipping P_1, P_2), (P_2 , a

new path based MIP model for the Liner shipping Network Design Problem minimizing the cost of vessels and their fuel consumption facilitating a green network. A Path Based Model for a Green Liner Shipping Network ... Abstract 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 (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 ... 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. Global intermodal liner shipping network design 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 Existing

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