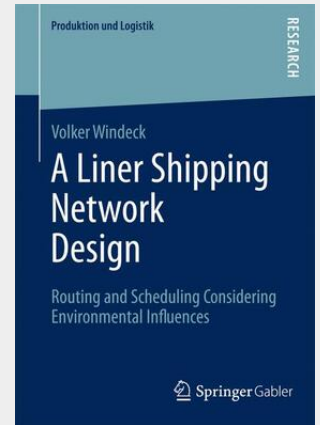


## A Liner Shipping Network Design

Routing and Scheduling Considering Environmental Influences

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. Volker Windeck elaborates a liner shipping network design approach which is not only considering the harbours to be visited, cargo to be transported and number of ships available, but also considers environmental influences. Additionally the revenue contribution of alternative propulsion system can also be analysed. Extensive numerical tests indicate that significant savings are obtained when using this liner shipping network design approach.

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