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A Branch-and-Price Approach to the Feeder Network Design Problem

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Highlights

- The problem of selecting customers and designing routes on a container shipping feeder network is proposed.
- The model takes into account many real-life characteristics and constraints.
- The model is solved with a branch-and-price algorithm.
- Realistic instances are produced, starting from publicly-available benchmark instances.
- Computational results and a scenario analysis are presented, to provide insights on desirable features of optimal routes.

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