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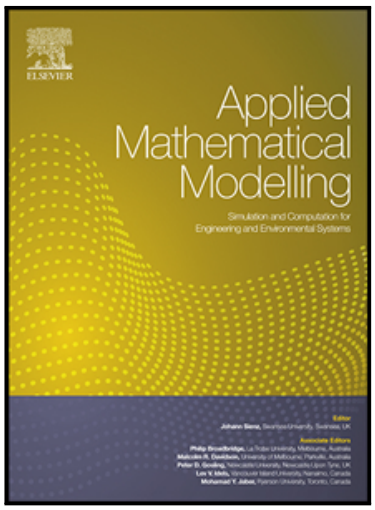

Robust supply chain network design with multi-products for a company in the food sector

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Highlights

- A mixed-integer linear programming model is developed for supply chain network design problem of a firm in the food sector
- Decisions include opening and capacity acquisition at a new plant, capacity expansion at existing plants, shipment amounts
- To obtain a robust solution against demand uncertainty minimax regret approach is adopted
- The plant to be opened as suggested by the robust solution of the model is confirmed and implemented by the firm

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