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Optimal production, replenishment, delivery, routing and inventory management policies for products with perishable inventory

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Highlights

- A real-world variant of PRP with perishable inventory is introduced.
- Main inventory management policies are discussed and classified.
- Three families of valid inequalities are used to tighten the MILP problem.
- Compare 8 suboptimal delivery and selling priority policies with an optimized policy.
- Case study shows the applicability of the model and algorithms.

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