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# Modeling and solving the integrated ILRP in a multi-period and multi-perishable product supply chain with uncertainty: lagrangian relaxation algorithm

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## Highlights:

- Considering an inventory- location- routing problem (ILRP) for perishable products
- Considering uncertainty in a three-echelon, multi-product and multi-period supply chain system, as stochastic demand
- Considering a heterogeneous vehicle fleet
- Considering multiple distribution center in mathematical model
- Introducing vehicle timetable (through which it becomes clear which distribution center is using which vehicle in a given period)

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