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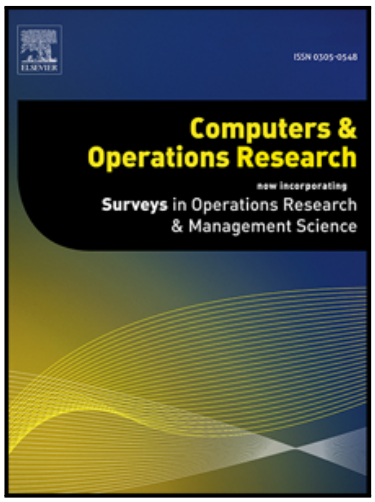


# Analysis of an Improved Branch-and-Cut Formulation for the Inventory-Routing Problem with Transshipment

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**Highlights**

- We develop new sets of valid inequalities to strengthen the linear relaxation.
- We improve the coefficients in the inventory management constraints.
- We present a stronger formulation for the routing component of the problem.
- We prove that a large number of variables can be eliminated during a preprocessing stage.
- The experiments confirm the proposed improvements outperform the current best results.

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