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# A branch-and-cut algorithm for the two-echelon capacitated vehicle routing problem with grouping constraints

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**Highlights**

- Addressed a new two-echelon vehicle routing problem
- Formulated the problem into a mathematical programming model
- Proposed six families of valid inequalities to strengthen the model
- Implemented a branch-and-cut algorithm to exactly solve the problem
- Evaluated the algorithm by extensive numerical experiments

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