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Multiple Allocation Hub Interdiction and Protection Problems: Model Formulations and Solution Approaches

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Highlights

- This paper studies a bilevel Hub Interdiction and trilevel Hub Protection Problem.
- We study efficient methods to reduce the bilevel problem to single level.
- We present different closest assignment constraints to enable this reduction.
- We propose a Benders Decomposition method that solves large interdiction problems.
- Hub Protection Problem is solved using an Implicit Enumeration algorithm.

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