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Hub interdiction problem variants: Models and metaheuristic solution algorithms

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**Highlights**

- New hub interdiction problems are introduced to the hub location literature.
- New bilevel and single level mathematical formulations are proposed for the problems.
- Different multi-stage CA constraints are presented and analyzed.
- Efficient simulated annealing based heuristics are proposed to solve the problems.
- Extensive computational study are carried out on the problems.

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