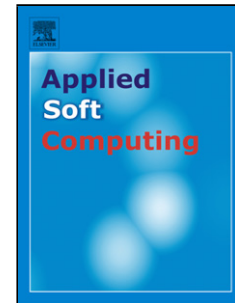


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# A Bi-objective Partial Interdiction Problem Considering Different Defensive Systems with Capacity Expansion of Facilities under Imminent Attacks

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## Graphical abstract

**Defender:**

---

$$\min_{z_1} (v_{rj})$$

$$\min z_2 (z_3, L_j)$$

$$\text{s.t. } g_1(v_{rj}, L_j)$$

where  $(L_j, v_{rj})$  are given by the upper-level,  $(z_3)$  is solved by the lower-level.

**Attacker:**

---

$$\max z_3 (X_{ij}, \varphi)$$

$$\text{s.t. } g_2(X_{ij}, \varphi, F_j)$$

The solution is backed to the upper-level

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