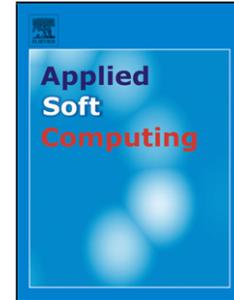


Accepted Manuscript

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PII: S1568-4946(18)30202-3
DOI: <https://doi.org/10.1016/j.asoc.2018.04.011>
Reference: ASOC 4815

To appear in: *Applied Soft Computing*

Received date: 1-12-2017
Revised date: 2-3-2018
Accepted date: 11-4-2018

Please cite this article as: Amir Mohammad Fathollahi Fard, Mostafa Hajiaghahi-Keshteli, A Bi-objective Partial Interdiction Problem Considering Different Defensive Systems with Capacity Expansion of Facilities under Imminent Attacks, *Applied Soft Computing Journal* <https://doi.org/10.1016/j.asoc.2018.04.011>

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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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