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A New Approach to Cooperative Competition in Facility Location Problems: Mathematical Formulations and an Approximation Algorithm

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Research Highlights:

- This paper deals with cooperative competition in facility location problems.
- A new game-theoretical multi-objective model is proposed that has efficient performance to achieve Nash equilibrium points.
- Due to high computational complexity of the problem, a new approximation heuristic algorithm is proposed to solve large-sized problems.
- The computational results show that the proposed algorithm has satisfactory performance in two criteria including computational time and the quality of final results.

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