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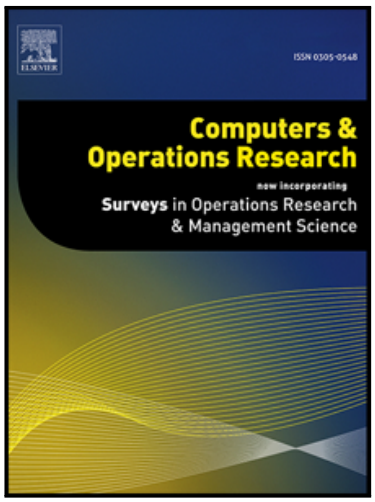

Novel integer linear programming models for the facility layout problem with fixed-size rectangular departments

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Highlights:

- A facility layout problem to maximize the material flow between adjacent departments.
- An existing model is demonstrated to be flawed.
- Two novel ILP models are proposed by reformulating some constraints of the existing model.
- The models significantly reduce the number of variables and are more efficient.

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