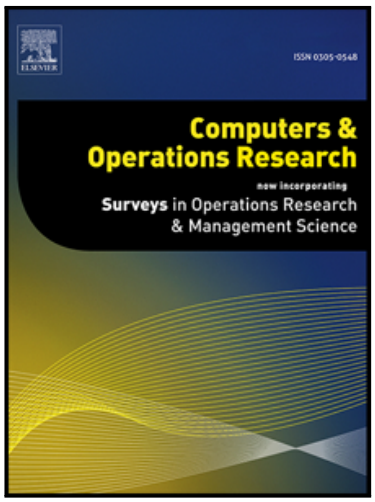

A problem evolution algorithm with linear programming for the dynamic facility layout problem— a general layout formulation

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Highlights:

- The Problem Evolution Algorithm (PEA) is developed to solve the Facility Layout Problem (FLP).
- The PEA-LP works very well in solving various FLP benchmark problems.
- A polyhedral inner-approximation is proposed for the nonlinear department area constraints.
- Two symmetry-breaking constraints are introduced to increase the algorithmic efficiency.
- Relayout of department blocks in the context of the dynamic FLP was considered.