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An Integrated Simulation-based Optimization Technique for Multi-Objective Dynamic Facility Layout Problem

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Highlights

- A Simulation-Based optimization procedure is introduced to solve dynamic facility layout problem (DFLP) such that material handling and the relevant costs to be minimized mathematically.
- The proposed procedure works for the situations in which there are stochastic interferences among transporting vehicles.
- Applying fitness functions based on some preliminary random layout scenarios as well the computer simulation helped to optimize such complicated problem on which translating the objective functions using mathematical terms is so hard.
- Customized NSGA-II are proposed to find the optimum layout satisfying the two relevant objective functions.

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