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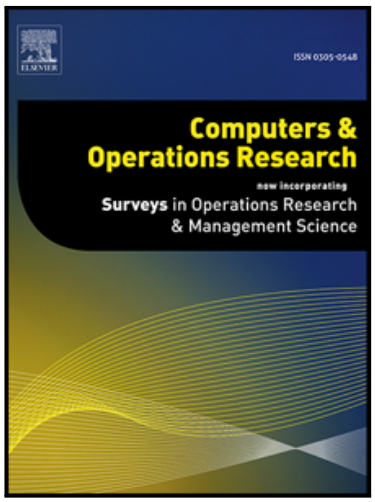

A decomposition based hybrid heuristic algorithm for the joint passenger and freight train scheduling problem

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Highlights

- Developed a mixed integer program for the integrated passenger and freight train scheduling problem.
- Decomposed the problem into several subproblems and each subproblem is solved either optimally or by a heuristic method.
- On a small network, the proposed heuristic compares favorably to the optimal solution.
- For a large rail network based on the rail configuration in the Los Angeles area, the proposed heuristic is shown to be effective in reducing freight train delays and improving passenger train punctuality.

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