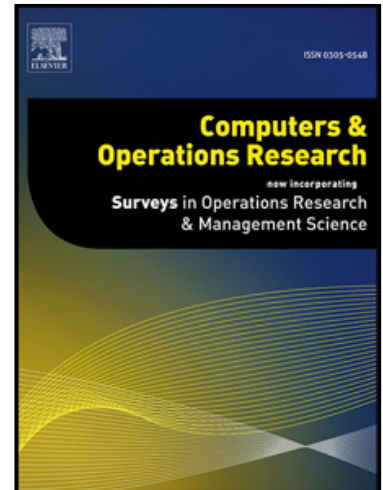


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A Greedy Heuristic for Shift Minimization Personnel Task Scheduling Problem

Mehran Hojati

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Highlights

- Shift Minimization Personnel Task Scheduling Problem (SMPTSP) is assigning predetermined tasks to a minimum number of heterogeneous workers with predetermined shifts. Each task can be performed only by a specific subset of workers.
- SMPTSP is NP-hard. Solving very large scale SMTSPs remains a challenge.
- In this paper, a greedy heuristic method is proposed and used to solve large test problems.
- The results show that this heuristic is very competitive, especially for very large instances of SMPTSP.

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