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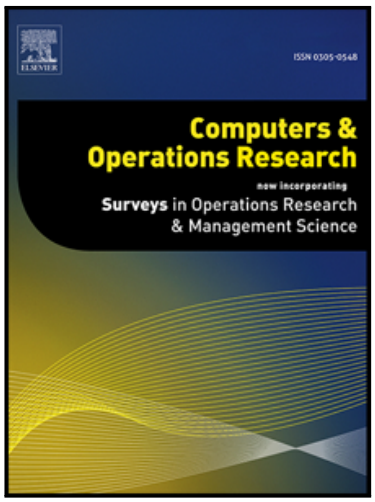

Matheuristic approaches for parallel machine scheduling problem with time-dependent deterioration and multiple rate-modifying activities

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Highlights

- We consider a parallel machine scheduling with time-dependent deterioration and multiple rate-modifying activities.
- The deterioration is a linear function of a gap between starting time of job and the ending time of the previous RMA.
- We developed a mixed integer programming model for the problem to find the optimal solution.
- A novel simulated annealing algorithm embedding a mathematical model with an adjustment heuristic is effective and efficient for solving the problem.

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