

Accepted Manuscript

Timetable Rearrangement to Cope with Railway Maintenance Activities

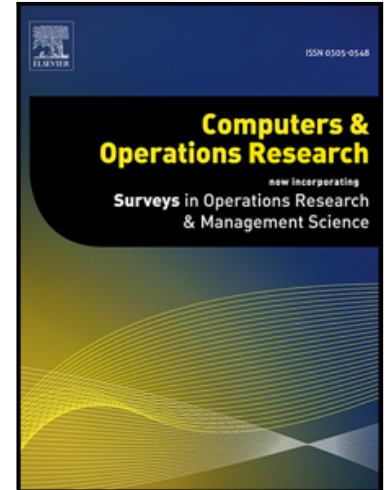
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Highlights

- We introduce RECIFE-MAINT, a MILP formulation to solve the problem of rearranging a timetable to cope with railway infrastructure maintenance;
- RECIFE-MAINT considers specific aspects of maintenance such as maintenance trains and temporary speed limitations;
- We propose two algorithms to solve RECIFE-MAINT which are tested in a real scenario of the French railway network;
- Our solution approaches obtain considerably better solutions than the algorithm emulating the current practice;
- We identify and analyse some characteristics of the instances of the problem having an impact on their difficulty.

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