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A hybrid Constraint Programming/Mixed Integer Programming framework for the preventive signaling maintenance crew scheduling problem

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Highlights

- We present the formulation of a real-world railway maintenance scheduling problem.
- We use constraint programming to generate initial feasible solutions.
- These solutions are used to warm start a mixed integer programming solver.
- Our results outperform the current practice of only applying a mixed integer solver.
- It is also better than formulating the problem as a constraint optimisation problem.

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