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A perturbation matheuristic for the integrated personnel shift and task re-scheduling problem

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Highlights

- A procedure for recovering personnel task schedules is proposed.
- We consider three different types of operational variability.
- A new meta-heuristic perturbation meta-heuristic is proposed based on local branching.
- A new local search method for personnel re-rostering is proposed.
- The impact of different local neighbourhood structures and sizes is analysed.

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