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Two-level Decomposition based Matheuristic for Airline Crew Rostering Problems with Fair Working Time

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Highlights

- A two-level decomposition based metaheuristic is proposed for airline crew rostering.
- The problem and the method consider fair working time.
- A generalized set partitioning reformulation is used to solve the master problem.
- We incorporate an efficient partial optimization metaheuristic implementation.
- Experimental results for real-world data show the superiority of the proposed method.

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