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A Branch-and-Price Algorithm for Scheduling of Deteriorating Jobs and Flexible Periodic Maintenance on a Single Machine

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Highlights

- Study a scheduling problem with deteriorating jobs and flexible maintenance
- Propose two integer programming formulations and a branch-and-price algorithm
- Develop an efficient label-setting algorithm to solve the pricing problem
- Evaluate the algorithm through extensive computational results
- Introduce a myopic heuristic to practitioners for the online case

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