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An iterative approach for reducing the impact of infrastructure maintenance on the performance of railway systems

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**Highlights**

- Considering robustness when adapting the train schedule to maintenance actions is new
- By iteratively re-routing and re-timing trains, cancellations are minimized
- The developed algorithm improves the robustness of the service with more than 10%
- All this is a significant improvement compared to the state-of-the-art methods

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