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Three-stage optimization method for the problem of scheduling additional trains on a high-speed rail corridor

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## Highlights

- A new bi-objective MILP model is formulated for the problem of scheduling additional trains on a high-speed rail corridor.
- Some details of train movements are considered in the model.
- A three-stage optimization method is proposed to solve the model.
- The proposed model and method are tested on real-world instances.

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