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A Routing and Scheduling Approach to Rail Transportation of Hazardous Materials with Demand Due Dates

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Highlights

- We study a rail routing and scheduling problem with due dates.
- A statistical analysis is conducted to reveal the connection between speed and risk.
- The risk equity is incorporated in hazmat transportation decisions.
- A heuristic based on a lower bounding scheme is developed for solution purpose.
- Realistic-sized numerical experiments are employed to provide managerial insights.

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