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An asset-management oriented methodology for mine haul-fleet usage scheduling

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Highlights

- We propose an original mixed integer programming formulation to optimize mine haulage equipment scheduling in the long term.
- The model considers the effects of equipment aging, fuel consumption, payload capacity and cycle times.
- The model considers joint minimization of fuel, M&R, and overhaul costs.
- The case study shows a cost reduction of 13% in the discounted flows associated with total costs in a time horizon of 10 years.

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