Co-Authors

This is joint work with

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Research Context

Rio Tinto Alcan (Saguenay, Québec, Canada)

- Aluminium production: Over 1M tons/year

(Source: www.constructioncanada.net)

- Power generation: 2080 MW (average)
Hydropower Generator Maintenance Scheduling: Context

How to use a decomposition approach to efficiently produce maintenance schedules that minimize the maintenance and operation costs in hydropower systems?

- Reduces service disruptions
- Prevents costly breakdowns

Temporal and spatial interdependencies

Maintenance outages

Maintenance of generators

Nonlinear power functions

Uncertain Inflows

\[ P_t = f(Q_t, h_t, \Omega_t) \]