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An Exact Branch-and-Price Algorithm for Scheduling Rescue Units during Disaster Response

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Highlights

- A branch-and-price algorithm for scheduling collaborative rescue units is proposed.
- The algorithm can be used as an exact or heuristic procedure when time is scarce.
- The algorithm substantially improves existing algorithms in terms of effectiveness.
- The algorithm calculates solutions close to the optimal solution within minutes.
- Execution times statistically significantly depend on model parameter values.

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