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The selective minimum latency problem under travel time variability:
an application to post-disaster assessment operations

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Highlights

- A new selective vehicle routing problem is defined, where a subset of customers should be serviced by a fleet of vehicles with the aim of minimizing the total latency, while a minimum performance level is achieved.
- We address the problem under risk, presenting a mean-risk approach.
- We develop a heuristic approach to solve the proposed problem.
- We present a case study related to the rapid assessment routing problem in the aftermath of a dramatic disaster.
- With the aim of assessing the efficiency of the proposed solution approach, we conduct extensive computational experiments for the case study as well as for a set of benchmark instances.
- The computational results show the effectiveness of the proposed approach which yields near-optimal solutions in a limited amount of time.

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