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Multi-stage Optimization for Periodic Inspection Planning of  
Geo-distributed Infrastructure Systems

Dzung T. Phan, Yada Zhu

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**Highlights**

- A method for finding inspection intervals of geo-distributed infrastructure systems is proposed.
- The system is partitioned into groups based on pre-specified features.
- The group's inspection interval is first computed based on the expected cost per cycle.
- We find the system inspection schedule considering the workforce and budget constraints.
- An integer program and a heuristics are introduced to determine the inspection schedule.

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