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Dynamic optimization of preventative and corrective maintenance schedule for a large scale urban drainage system

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**Highlights**

- We consider urban drainage system maintenance as a risk-driven problem.
- Environment and social cost of flooding are important factors for scheduling.
- Our strategy optimizes preventative and reactive maintenance automatically.
- Preventative maintenance greatly reduces the flooding risk at little additional cost.
- Up-to-date information is the key to improving drainage system maintenance quality.

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