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An Adaptive Lagrangian Relaxation-based Algorithm for a Coordinated Water Supply and Wastewater Collection Network Design Problem

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**Highlights:**

- A new coordinated **water supply and wastewater collection** network design problem is developed;
- A real case study in the west Azerbaijan province in Iran is conducted to validate the proposed methodology;
- A new heuristic algorithm based on an adaptive **Lagrangian relaxation** is introduced;

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