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# Location-allocation approaches for hospital network planning under uncertainty

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Highlights

- This study proposes two location-allocation models for handling uncertainty in the strategic design of a hospital network;
- The two models hold different assumptions regarding the decisions to be taken under incomplete information;
- The models address the tradeoffs between improved access and cost minimization;
- Hospitals are taken as multiservice providers operating within a hierarchical structure and in a dynamic context;
- Applying the models to Portuguese data shows that one model is more flexible to handle the planning problem at hand.

## **Abstract**

This study proposes two location-allocation models for handling uncertainty in the strategic planning of hospital networks. The models aim to inform how the hospital networking system may be (re)organized when the decision maker seeks to improve geographical access while minimizing costs. Key features relevant in the design of hospital networks, such as hospitals

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