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Multi-Objective Capacity Allocation of Hospital Wards Combining Revenue and Equity

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Highlights

- A multi-objective stochastic programming model with joint optimization of revenue and equity is proposed.
- The solution approach is proposed by combining simulation, linearization, and two algorithms.
- A novel equity measure index is proposed at the hospital operation level.
- A data-driven simulation model is developed to handle the non-analytic objectives.
- Both revenue and equity increase as wards number or access time target increases.

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