عنوان مقاله:

Robust Estimation in Multi Criteria Operating Room Allocation under Downstream Resources Constraint: a Case Study

محل انتشار:

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خلاصه مقاله:

This study describes a methodology for multi criteria operating room allocation at the strategic level of hospital planning. Operating room allocation is one of the most important core issue in hospital strategic planning. This problem aims at assigning capacity of operating room (OR) to surgical groups based on characteristics, constrains and objectives of hospitals. In order to obtain an optimal allocation, a linear programming (LP) model is developed different performance measures of the OR are considered. Since the data used to estimate parameters of the developed model is derived from an Iranian medium size hospital, a robust estimation is developed to down weight outlier data. The developed model is solved using GAMS software and a sensitivity analysis is conducted to find the impact of changes in terms of resources on the objective function of the problem.

کلمات کلیدی:

Operating Room Allocation, Robust Estimation, Multi Criteria, Linear Programming

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