Potential Hospital Location Selection using AHP: A Study in Rural India

Abstract

Selecting a location for a potential hospital often decides the success or the failure of such a facility. It is thus important to assess the locations from multiple dimensions before selecting the site. This paper focuses on the multi factor evaluation of hospital sites using Analytical Hierarchy process (AHP) and evaluates three potential rural hospital sites in India. This study considered three major factors and eleven sub factors in the evaluation. Findings show that among the sub factors, cost of land, population density and proximity to public transport evolved as the three most significant sub factors.

References

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Index Terms

Computer Science

Information Technology

Keywords

Hospital location AHP multi factor evaluation pair wise comparison selection expert opinion