Application of Multiple Objective Decision Making to the Selection of Recreational Facilities

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ABSTRACT

The demand for recreational facilities of Taiwan has grown these years. It becomes obvious that current recreational facilities cannot satisfy the demand gradually. Setting new recreational facilities on the right location hence becomes an important issue. There are several criteria need to be considered when determining the proper location for recreational facilities. In this research, we consider transportation convenience maximization, minimum number of new facilities given all demand are satisfied, coverage maximization, and total travel distance minimization simultaneously. Multiple objective decision making(MODM) technique and location theory are used to generate a non-dominated solution, in other words, the number and location of new reccreational facilities.

Keywords: Recreational Facility; Multiple Objective Decision Making; Analytic Hierarchic Procedure

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