

Geographic Information Systems are used in conjunction with other systems and methods such as systems for decision making (DSS) and the method for multi-criteria decision making (MCDM).

(PDF) GIS Based Multi-Criteria Analysis for Industrial ...

The current study explores the application of GIS-Multi-criteria analysis in modeling future land use scenarios for resources planning and management using easy to construct biophysical parameters known for influencing future land use allocation.

GIS and Multi-Criteria Decision Analysis for Land Use ...

The suitable land analysis for rice production is based on a simple Multi-Criteria Approach or Analysis (MCA) through GIS. Indeed, new technologies such as remote sensing and GIS play an important role in mapping crops suitable land for developing countries [12] [13].

Suitable Land Assessment for Rice Crop in Burkina Faso ...

The applied methodology in this paper is a GIS-based multi-criteria approach for flood risk assessment based on the spatial intersection of three components: flood hazard, social vulnerability, and economic vulnerability. The AHP was selected as the criteria weighting method in the context of MCDM.

Flood Risk Mapping Using GIS and Multi-Criteria Analysis ...

In this context, MCDA methods have been embodied in GIS softwares enabling the simultaneous spatial and multi-criteria analysis of a problem. This poster concerns the exploration of the most suitable location for the development of an agro-tourist infrastructure.

A GIS-based Spatial Multi-Criteria Decision Analysis ...

Multi-criteria decision analysis (MCDA), a methodology that allows the analysis of complex decision problems involving conflicting criteria, has previously been used within a geographic information system (GIS) for this purpose [14,15,17,18].

Spatial multi-criteria decision analysis to predict ...

To make the site to be selected environmentally sound, socially acceptable and economically feasible, GIS based multi-criteria decision analysis (MCDA) method that has the capability to combine spatially referenced data with experts' value judgment was used in this study. The analytic hierarchy process (AHP) was the major technique of ...