

Applying The Fuzzy Analytical Hierarchy Process In

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Applying The Fuzzy Analytical Hierarchy

Fuzzy Analytical Hierarchy Process Method to Determine the Quality of Gemstones 1. Introduction. Many times, we are always faced with several options for the right decision-making. It is difficult to... 2. Data Availability. The data and criteria in Table 1 were collected by consulting the director ...

Fuzzy Analytical Hierarchy Process Method to Determine the ...

The Analytical Hierarchy Process (AHP) enables a hierarchical granulation [20]. It represents the hierarchical organization of given information. To address imprecision and uncertainty, fuzzy logic is added to conventional AHP. Then, FAHP makes it possi-ble to work with uncertain information. This fuzzy hierarchical

Applying the Fuzzy Analytical Hierarchy Process In ...

The framework enhances the interaction between cities and their citizens, introducing the Fuzzy Analytical Hierarchy Process (FAHP) as a potential information acquisition method to improve existing citizen management endeavors for cognitive cities. Citizen management is enhanced by advanced visualization using Fuzzy Cognitive Maps (FCM).

Applying the fuzzy analytical hierarchy process in ...

apply the fuzzy analytic hierarchy process (fuzzy AHP) in determining the relative importance of the decision criterion in order to eventually select the best product of notebook computers. The real numerical finding results have also been demonstrated. Both the theoretical and practical background of

Applying Fuzzy Analytic Hierarchy Process to Evaluate and ...

a combination of fuzzy numbers and AHP, known as the fuzzy analytic hierarchy process (FAHP), is, used to account for the uncertainty and ambiguity in expert judgments [9]. The use of FAHP in sustainable project selection has mostly focused on evaluating di erent.

The Application of Fuzzy Analytic Hierarchy Process In ...

such as analytical hierarchy process (AHP) has been applied in the wider operations management field (Vaidya & Kumar, 2006), but have not been explored specifically for reshoring. In case of complexity and uncertainty in reshoring decisions, the AHP can be integrated with fuzzy logic, called as fuzzy-AHP (FAHP).

APPLYING FUZZY ANALYTICAL HIERARCHY PROCESS TO RESHORING ...

Applying fuzzy set theory to the AHP method is known as fuzzy analytical hierarchical process (FAHP) and was defined by Huang and Wu (200) in three steps. "The first involves using triangular fuzzy numbers to transform the ideas of experts into a positive reciprocal matrix. Second, a geometric mean method that weighs the fuzzy values for each option, with the established hierarchical

Applying fuzzy extended analytical hierarchy (FEAHP) for ...

Applying the Fuzzy Analytic Hierarchy Process to Construct the Product Innovative Service System of Wedding Photography Apparel 1. Introduction. Nowadays, most of studies focus on operation of bridal photography companies. According to literature... 2. Literature Review. The bridal photography in ...

Applying the Fuzzy Analytic Hierarchy Process to Construct ...

Fuzzy analytic hierarchy process (AHP) proves to be a very useful methodology for multiple criteria decision-making in fuzzy environments, which has found substantial applications in recent years.

Fuzzy analytic hierarchy process: A logarithmic fuzzy ...

The analytic hierarchy process (AHP) is a structured technique for organizing and analyzing complex decisions, based on mathematics and psychology.It was developed by Thomas L. Saaty in the 1970s who partnered with Ernest Forman to develop Expert Choice in 1983, and has been extensively studied and refined since then. It represents an accurate approach for quantifying the weights of decision ...

Analytic hierarchy process - Wikipedia

This study is the first to integrate a geographic information system (GIS) with a Fuzzy-Analytic Hierarchy Process (F-AHP) to evaluate the relative importance of physical, natural, environmental, and socio-economic factors for determining the suitability of ecotourism sites.

A GIS-based fuzzy-analytic hierarchy process (F-AHP) for ...

gathering information from lecturers, Fuzzy Analytic Hierarchy Process (FAHP) was employed as a quantitative method to evaluate the impact of CPDP on conception changes in the teaching and ...

(PDF) An embedded fuzzy analytic hierarchy process for ...

Background and Purpose: Managers are applying multi-criteria decision-making methods like analytic hierarchy process (AHP) during the recent two decades mostly due to their positive properties....

(PDF) Applying Fuzzy Analytic Hierarchy Process (FAHP) In ...

This study proposes the analytical hierarchy process (AHP) approach, a decision-making method based on pairwise comparisons between criteria, to construct an evaluation structure with criteria and associated weights of convention site selection for meeting planners. A case study with a three-level evaluation structure is constructed and tested.

Applying the Analytical Hierarchy Process (AHP) Approach ...

Analytical hierarchy process (AHP) is widely implemented to determine weights of the criteria of decision model by pairwise comparisons of expert decision makers. As an extension, intuitionistic fuzzy-AHP (IF-AHP) can be administered for decision models where decision makers have suspicion on comparing criteria.

A Novel Approach Integrating Intuitionistic Fuzzy ...

An integrated fuzzy analytical hierarchy process and data envelopment approach is used to analyze the relative efficiency of various solar stills based on various input and output criteria. Relative weights of criteria are found using fuzzy AHP approach and the overall efficiency score for the 20 solar stills is determined using the data ...

Techno-economic analysis of solar stills using integrated ...

1. Analytic Hierarchy Process and Fuzzy Set Theory. Ali Emrouznejad and William Ho. 2. The State of the Art in FAHP in Risk Assessment. Peh Sang Ng, Joshua Ignatius, Mark Goh, Amirah Rahman, and Feng Zhang. 3. Comparison of Methods in FAHP with Application in Supplier Selection. Nimet Yapici Pehlivan, Turan Paksoy, and Ahmet Calik. 4.

Fuzzy Analytic Hierarchy Process - 1st Edition - Ali ...

This paper presents an integrated method to assess the vulnerability of coastal risks by applying the Fuzzy Analytic Hierarchy Process (FAHP) and spatial analysis techniques with a geographic information system (GIS).