

Applying The Fuzzy Analytical Hierarchy Process In

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Applying The Fuzzy Analytical Hierarchy

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).

When should fuzzy analytic hierarchy process be used ...

Applying the Fuzzy Analytic Hierarchy Process to the Analysis of Leisure Business Service Failure Weights Han-Chen Huang, Guan-Ya Shen International Journal of Advancements in Computing

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Technology ...

Applying the fuzzy analytical hierarchy process in ...

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 possible to work with uncertain information. This fuzzy hierarchical

Analytic hierarchy process - Wikipedia

The analytic hierarchy process (AHP) has been widely applied in the last four decades, and a fuzzy logic version, the fuzzy AHP (FAHP), has also been employed in many studies since its formulation. However, it is not clear whether the FAHP is better than the AHP in terms of quality of the solution.

(PDF) Applying the Fuzzy Analytic Hierarchy Process to the ...

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 ...

Saaty's Analytic Hierarchy Process (AHP) A method which can be used by the decision maker to calculate the priority weights for criteria.

A Fuzzy Analytic Hierarchy Approach for Ranking and ...

The objective of this paper is to apply the fuzzy analytic hierarchy process (fuzzy AHP) in

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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.

(DOC) Applying the Fuzzy Analytical Hierarchy Process in ...

Portfolio Selection Using Fuzzy Analytic Hierarchy Process (FAHP) Zahra Lashgari¹ and Kobra Safari² Investors participate in stock markets for the exclusive purposes of earning highest return and sustaining and enhancing profitability. With this in mind,

Applying the Fuzzy Analytical Hierarchy Process in ...

This paper introduces a mobile application (app) as the first part of an interactive framework. The framework enhances the interaction between cities and their citizens, introducing the Fuzzy Analytical Hierarchy Process (FAHP) as a potential

Applying the Fuzzy Analytic Hierarchy Process to Construct ...

Given the complexity of the decisions to be made and the associated uncertainty in decision-making, the Fuzzy Analytic Hierarchy Process was adopted as the most practical approach. This multi-criteria decision-making method was applied to results from an expert panel, through questionnaires given to specialists with appropriate knowledge and experience in the raised issues.

(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.

Analytic Hierarchy Process (AHP)

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Hence, the main purpose of this paper is to the fuzzy apply analytic hierarchy process (AHP) approach to empirically study the risk identification on key operational safety elements (OSEs) for ECTs of Kaohsiung port in Taiwan. To facilitate the main issue for obtaining the preliminary OSEs, the four dimensions and sixteen

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

1.2. Analytic Hierarchy process (AHP) In this study, Fuzzy AHP technique was used to prioritize the criteria and indicators of ecotourism management in PNP. Among all Multi Criteria Decision Making (MCDM), AHP is a broadly-used instrument, which was first proposed by Saaty in 1980. AHP is a suitable method for show the decision maker opinions in

Using the analytic hierarchy process (ahp) to select and ...

The analytic hierarchy process 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 the most accurate approach for quantifying the weights of criteria. Individual experts' experiences are utilized to estimate the relative magnitudes of factors ...

Application of the fuzzy analytic hierarchy process in ...

Applying Fuzzy Analytic Hierarchy Process (FAHP) to Evaluate Factors Locating Emergency Logistics Platforms Karima ZEJLI Laboratory of mechanics and physics of heterogeneous environment (LMPH), Faculty of Science and Technology (FST), Tangier, Morocco Abdellah AZMANI Laboratory of Sciences Computer, Systems and Telecommunication (LIST)

Applying Fuzzy AHP Approach to Evaluate Key Operational ...

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Abstract. The analytic hierarchy process (AHP) is one of the most widely-used multiattribute decision-making methods. In this section we overview the fuzzy AHP methods existing in the literature. We present the four different approaches of fuzzy AHP methods by giving numerical examples.

Portfolio Selection Using Fuzzy Analytic Hierarchy Process ...

Applying fuzzy analytic hierarchy Process (FAHP) to evaluate factors locating emergency logistics platforms

Applying Fuzzy Analytic Hierarchy Process (FAHP) to ...

Applying the Analytic Hierarchy Process to Oil Sands Environmental Compliance Risk Management by Izak Johannes Roux III MEng, University of Pretoria, 1991 BEng, University of Pretoria, 1976 Doctoral Study Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Business Administration Walden University December 2014

Fuzzy Analytic Hierarchy Process and its Application ...

Applying the Fuzzy Analytic Hierarchy Process to Construct the Product Innovative Service System of Wedding Photography Apparel Jui-Che Tu and Chi-Ling Hu Graduate School of Design, Master & Doctoral Program, National Yunlin University of Science and Technology, Douliou, Yunlin 640, Taiwan

Applying Fuzzy Analytic Hierarchy Process to Evaluate and ...

The objective of this paper is to present, discuss, and apply the principles and techniques of the analytic hierarchy process (AHP) in the prioritization and selection of projects in a portfolio. AHP is one of the main mathematical models currently available to support the decision theory.

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