



AHP METHOD AND APPLICATION EXAMPLE FOR THE ROBUST MULTI-CRITERIA DESIGN CONCEPT SELECTION

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ABSTRACT

This paper aims at giving an application of Analytical Hierarchy Process (AHP), a Multi Criteria Decision Making method for the selection of a motorcycle tire dismounting tool. Four criteria and four sub-criteria were identified for the selection of the best design concept from three alternative solutions. It was observed that a design concept-1 has received the highest score and selected design to proceed. The selection of the design concept is robust enough as the consistency on the decision made is within the allowable range of inconsistency which is less than 10%.

Keywords: AHP, design concept, concept selection.

INTRODUCTION

Concept selection is an activity in the product design process, where alternative concepts are compared and a decision is made to select the alternative(s) which proceed into the later phases of design [1]. Salonen and Penttala [2] described the concept selection as identifying the alternatives that best fulfill the decision-making criteria. Selection of design concepts is the essential and complex decision activity at the conceptual design stage as a poor design concept cannot be compensated by a well-detailed design and will incur a great redesign cost [3]. It influences all subsequent phases with regards to cost, quality, and performance of the end-product [4]. According to [5], the decision made at this stage contributes 80% to the production cost. Thus, that is the reason why concept selection is an area in design science that is under considerable interest continuously. The decision makers have to assess the design concepts in various aspects including the technical, cost, aesthetical, etc, normally with vague information about the design concept in hand. This may create difficulties for them to judge and it is a tedious activity. To ensure the selection of design concept is robust, the decision makers must certain with the decision of which design concept should they further developed.

To assist them in selecting the best design concept many different methods exist. The most common method is the selection charts. Possibly the simplest selection chart is a decisions matrix, where a number of design concepts are rated against a limited set of criteria, then each criterion is subjectively weighted, and the results are summed up to provide a total score for each solution [6]. Pugh's method, with extensions [7] assigns a datum solution and then all others are rated as better or worse on each product objective relative to the datum. Otto [8] extended this method by introducing numerical scoring procedures to assign degrees of better or worse with numbers that are weighted and summed. More complex methods such as the analytic hierarchy process (AHP) [9] use hierarchical groupings of criteria. AHP has been used in wide range of application including

engineering, education, economic, etc [10]. Among these methods, the concept scoring and AHP methods are most commonly used in industry [2]. The strength of AHP method relies on the consistency index that determines the consistency of decision in solving the multi-criteria attribute thus reducing bias in decision-making [11]. In AHP, the problem is decomposed into hierarchies with the goal on the top hierarchy, followed by criteria and sub-criteria, and finally, the alternatives (in this case, the concepts) make up the bottom hierarchy. In order to achieve the goal, pairwise comparisons of all criteria are carried out to determine the relative importance of each criterion. Then pairwise comparisons are conducted between all alternatives separately for each criterion. Based on these comparisons an overall selection is made. Eigen values and Eigen vectors are used to ensure that the decision maker's judgments are consistent in nature. Several reports [12, 13] have published on the application of AHP by academia in choosing the best design concept. Basically, the successful factor in AHP implementation relies on experience and knowledge of decision makers in particular to determine the factors influencing the decision [14]. In this paper, the robust multi-criteria concept selection using AHP is presented in order to select the most promising design concept for motorcycle tire dismounting tool and demonstrates the certainty of the decision made.

OVERVIEW OF AHP DECISION-MAKING METHOD

Establishment of a structural Hierarchy [15]

A complex decision is decomposed into a hierarchy descending from an overall objective to several levels from criteria, sub-criteria to the lowest level. The overall goal of the decision is placed at the top level of the hierarchy. The criteria and the sub-criteria that contribute to the decision are represented at the intermediate levels. Finally, the alternative solutions are placed at the lowest level of the hierarchy. A hierarchy can be constructed by

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Advances in Thermal Engineering, Manufacturing, and Production Management Sadhan Kumar Ghosh, Koushik Ghosh, Santanu Das, Pranab Kumar Dan, Arijit Kundu, 2021-07-01 This book presents the selected peer reviewed proceedings of the International Conference on Thermal Engineering and Management Advances ICTEMA 2020 The contents discuss latest research in the areas of thermal engineering manufacturing engineering and production management Some of the topics covered include multiphase fluid flow turbulent flows reactive flows atmospheric flows combustion and propulsion computational methods for thermo fluid arena micro and nanofluidics renewable energy and environment sustainability non conventional energy resources energy principles and management machine dynamics and manufacturing casting and forming green manufacturing production planning and management quality control and management and traditional and non traditional manufacturing The contents of this book will be useful for students researchers as well as professionals working in the area of mechanical engineering and allied fields

An Application of AHP to Developing Weights for

Hierarchical Criteria System of ASP Vendor Selection □□□, 2005 **Uses and Limitations of the AHP Method**

Nolberto Munier, Eloy Hontoria, 2021-02-05 This book examines the Analytical Hierarchy Process AHP method its varied uses as well as its limitations for solving real world scenarios While the simplicity of the method compels users to find shortcuts to a real world problem it also leads to obtaining wrong results that do not represent reality By alerting practitioners about the core necessities of a new scenario this book helps solve this problem as well as contribute to the field of Multicriteria Decision Making Method MDCM The authors use a demonstrative rather than a theoretical approach and examine 30 subjects that displays the shortcomings and drawbacks of the AHP Each one is examined in depth discussed debated and reasoned using examples some of them numeric The book highlights the rationality and common sense of the subjects and in most cases validates the criticism by showing through numerical examples the impossibility of the AHP method to address let alone solve real world projects At the conclusion of each subject a table is built comparing the similarities and differences between the opinions of the authors and other experts along with the respective pros and cons Hierarchon Vol 2 Thomas

L. Saaty, Rafikul Islam, 2015-08-18 Researchers have been continually developing ways and means to improve quality in decision making The success of a methodology is judged by its acceptability by the decision makers In this context it is beyond any argument that AHP has been massively successful Readers of this volume will see once again that AHP has been applied in widely diverse areas However there are many more applications of AHP in other areas that are not reported here We also don't claim that the set of applications of AHP in the reported areas is exhaustive it is far from complete In fact it will not be possible to capture all the real world applications of AHP even by publishing many volumes of this kind We hope that the readers will find the present compilation useful AHP Model for Identifying Best Health Care Establishment

Mohammed Azam, M. N. Qureshi, Faisal Talib, 2016 The purpose of this study is to develop an analytic hierarchy process AHP

model utilizing components parameters and factors of a specifically designed Integrated Quality Model for Health Care Establishment HCE In doing so the authors have utilized AHP approach to identify the best health care service quality performer among alternatives of HCEs To select the best HCE three HCEs of North India namely HCE A HCE B and HCE C were chosen The criteria components of the integrated quality model for the HCE designed and suggested by Azam Rahman Talib 2012a and Azam Rahman Talib Singh 2012b were adopted Further this study has undertaken an extensive in depth literature review about AHP and its applications for HCEs from various aspects A specifically developed integrated quality model for HCE with its components parameters factors thereof duly coded as criteria and sub criteria have been utilized It thus facilitates the development of an AHP model to rank the chosen HCEs helping to identify potentially the best HCE among them On the basis of the proposed hierarchical model the findings suggest that the HCE A may be selected first followed by HCE C and HCE B based on overall rating The study provides a mechanism through AHP model to select potentially best HCE utilizing specifically developed integrated quality model for HCE with impacts both for the clients and the patients to enjoy the service of best HCE as well as for the managers to improve the services of HCE and the business The study thus adds a new perspective by developing a selection process to select the best HCE through an AHP model utilizing criteria and sub criteria of an integrated quality model specifically developed for HCE It has practical value for maintaining service quality of HCE to benefit the clients and related stakeholders as well as the managers by improving quality enhancing reputation and business thereof

Understanding the Analytic Hierarchy Process Konrad

Kulakowski,2020 One of the best known methods of multi criteria decision making is the Analytic Hierarchy Process AHP This method provides a convenient and versatile framework for modelling multi criteria decision problems evaluating alternatives and deriving final priorities Rather than imposing a correct decision AHP allows the user to create a ranking of alternatives then choose the one which is the best or among the best At the core of AHP is a pairwise comparisons PC method This is an old technique known in various forms since at least the Middle Ages AHP uses and develops the PC method The aim of Understanding Analytic Hierarchy Process is to provide the reader with a critical guide to AHP In this book the AHP method is considered primarily as a mathematical technique supporting the decision making process Key Features Collects the ideas underpinning the AHP method and discusses them together with many improvements and extensions present in the literature As a result the reader will receive a much more complete picture of the method Aimed at theorists and advanced practitioners from a wide range of scientific fields including the social management and technical sciences Highlights the intuitive assumptions underlying the mathematical methods that make up AHP and the pairwise comparisons method Provides software code for readers who wish to practise AHP analysis using Wolfram Language

Application of AHP to Requirements Analysis Alexander Kott,Carnegie group inc pittsburgh pa,1998 We describe a group of related approaches to quantitative evaluation and prioritization of system requirements and proposals In formulating requirements

for new systems analysts face difficult tasks of selecting between alternative requirement decompositions identifying questionable or low priority requirements eliminating requirements that add unnecessary costs projecting cost impact of the requirements and then evaluating alternative system design proposals against the stated requirements We seek approaches that require modest investments of time and can be applied even at the early stages of the requirements formulation process We show that the Analytical Hierarchy Process can be applied to provide such evaluation mechanisms and illustrate our approach with a detailed example

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