Abstract

Solving a multiple criteria decision making problem by a group of decision makers in different geographical locations could be hard. Analytic Hierarchy Process is a mathematical model capable of dealing with such type of problems. However, the lack of geographical support is the major drawback of a traditional standalone Analytic Hierarchy Process tool. To address this issue, this paper proposes to adopt Java programming language to design and implement jAHP, a Java-based Analytic Hierarchy Process application available over the Internet. External validity is accessed by comparing jAHP results with both manual approach and commercial software.
Design and Implementation of jAHP: A Java-based Analytic Hierarchy Process Application

- JTree Class, available at: http://docs.oracle.com/javase/1.5.0/docs/api/javax/swing/JTree.html

Index Terms

Computer Science Information Systems

Keywords

Analytic Hierarchy Process (AHP) Java Programming Jtree