Abstract

In software engineering scenario, software effort estimation is very uncertain and depends on various external factors. For developing a particular type of software, selection of an optimal and experienced group of developer is essential for software development organization for organizational benefits and is necessary because success and failure of software is highly depends upon experienced team members, but it is not always possible to schedule a suitable team of developer for a specific type of software development from a group of developer, hence there should be a technique to form a group of developer for specific type of software development for cost effective reason. In this paper multi criteria decision making (MCDM) based fuzzy analytical hierarchy process is applied for formation or selection of software developer team. Fuzzy AHP is a ranking based optimization technique, which decides ranking among various alternatives based on conflict nature of criteria. Three different criteria from COCOMO effort estimation model are considered to decide ranking of three programmers. This technique can be applied for more number of criteria and alternative in real sense in software development scenario.
References


Index Terms

Computer Science

Fuzzy Systems
Keywords

Fuzzy analytic hierarchy process (FAHP)  Analytic hierarchy process  Software Engineering  COCOMO model