

專案延遲極小化的活動工時緩衝設計

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摘要

Abstract: The establishment of WTO symbolizes the end of production oriented era, and the emerging of knowledge economy. Enterprises must be constantly developing new products and services to maintain competitive advantage and market share. As a result, organizations should implement non-routine works called projects more than before, and the more innovative the enterprise is; the more projects are under taken. Nevertheless, feasible projects are usually far beyond the enterprises can afford, therefore, selecting the most appropriate projects has become the focus of enterprises investment decision.

The study intends to explore how an enterprise must formulate project portfolio under resources constraint to the overall profit. This article applies fuzzy theory to develop a project selection decision model, in which several investment decision parameters are factored in, including profit, cost and risk. The fuzzy membership functions are utilized to form a mathematical programming model. To validate the effectiveness of the model, an example is used to compare the project performance, and results show that the model can be a suitable tool in maximizing performance of project portfolio.

關鍵字：Project Portfolio, Fuzzy Theory, Fuzzy Membership Function.