

**INFORMATION TECHNOLOGY ISSUES
AND APPLICATIONS IN MALAYSIA
A COLLECTION OF ARTICLES**

Chief Editor

Assoc. Prof. Dr. Husnayati Hussin

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Professor Dr. Abu Osman Md Tap
Professor Dr. Mohd Adam Suhaimi
Assistant Professor Dr Mira Kartiwi

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The Potential of Fuzzy Evaluation Approach In Information Systems

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Abstract:

Evaluations of information systems has been a prime research issue in the information management. Since the nature of the evaluation process is very subjective, and involves ambiguity, vagueness, uncertainties and imprecise information, we look into the potentials of the fuzzy evaluation approach. A review of some potential fuzzy evaluation approaches such as fuzzy conjoint analysis, fuzzy analytical hierarchy process, fuzzy topsis and fuzzy cognitive mapping are presented as alternatives. A variation of other approaches are suggested as a possible extension and includes the intuitionistic fuzzy set and the conflicting bifuzzy set.

Keywords: fuzzy evaluation, fuzzy conjoint, fuzzy multi-criteria decision making, information systems.