## **Reliability Information to Support Decision Making for e-Government Projects**

Faiz Mohd Turan Universiti Malaysia Pahang 26600 Pekan, Pahang, Malaysia +(60)123687238 faizmt@ump.edu.my

Daniel Osezua Aikhuele Universiti Malaysia Pahang Faculty of Manufacturing Engineering Faculty of Manufacturing Engineering Faculty of Manufacturing Engineering 26600 Pekan, Pahang, Malaysia +(60)1111719410 danbishop\_22@yahoo.co.uk

Kartina Johan Universiti Malaysia Pahang 26600 Pekan, Pahang, Malaysia +(60)126813531 kartina@ump.edu.my

## ABSTRACT

E-government implementations in developing countries still face difficulties, leading to a large failure ratio. This paper proposed an exponential-related function adopted in an intuitionistic Fuzzy TOPSIS model for improving the understanding of failure and for building appropriate reliability knowledge to support decision making for e-government projects. The new method which is simple and straightforward have been successfully applied by virtue of numerical case studies for detecting failures, which in turn has provided information for building reliability knowledge to support decision making process. The method has been compared successfully with some similar computational approach in literature.

## Keywords

Exponential related (ER) function, Intuitionistic fuzzy weighted geometric (IFWG) operator, Intuitionistic Fuzzy TOPSIS.