

Induced Knowledge System for e-Government Development

柯宇謙, Hamido Fujita

Information Management

Computer Science and Informatics

eugene@chu.edu.tw

Abstract

E-government might be a key for national competitiveness and wellbeing. However, the significant attributes for developing e-government have not been verified theoretically. This research proposes a method named as DRSA-RS to find out development stages and induction rules for e-government. The results show that the adult literacy is the most significant attribute in the beginning stage and the gross enrollment in education is the most significant for the mature stage. Technically, dominance-based rough set approach (DRSA) is used to generate criteria reliabilities and rough set (RS) is then used to identify the development stages and attributes dependence. The intelligent knowledge about e-government development is revealed theoretically.

Keyword : e-government; intelligent knowledge; dominance-based rough set approach (DRSA); rough set (RS)