Implementation of Fuzzy Logic Algorithm in Identifying Gender and Development Interventions

Abstract

The Philippine State Universities and Colleges (SUCs) have established Gender and Development (GAD) mechanisms where the government provides funds for the implementation of its programs and projects. On the other hand, it was found out that most of the SUCs have non-automated data sources and systems without analytics functions. In this study, the authors present innovative solutions as the basis for gender interventions using a fuzzy logic algorithm. Different applications were utilized and implemented the Single-Input-Single-Output Mamdani fuzzy inference type. This is an advanced approach for determining relevant interventions for university that can promote gender equality and inclusivity.