BEHAVIOURAL ACADEMIC SELF ESTEEM DEPLOYMENT AND ANALYSIS USING FUZZY EXPERT SYSTEM

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AND ANALYSIS USING FUZZY EXPERT SYSTEM

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ABSTRAK

ABSTRACT

The characteristic of psychologist and counsellor can't be denied in the national education term even in school or the high institutions of education. There are a lot of strategies had done in increasing students potential, personality and academic. There are several psychology test such as Aptitude Test, Personality, Behavioural Academic Self Esteem (BASE) and others. Totally in Malaysia, the usage of the test manually and takes a long time for the analysis. That why students were not attracted or interest in doing the test. This thesis will present the Fuzzy System in counselling domain by selecting BASE test. The system comprises of five modules, namely Student Initiative of BASE Factor 1, Social Attention of BASE Factor 2, Success / Failure of BASE Factor 3, Social Attraction of BASE Factor 4, and Self-Confidence of BASE Factor 5. The system was constructed using hierarchical structural approach. The system was developed using web-based application language that is Microsoft's Active Server Pages (ASP) the server-side web scripting. The system comprises of five modules, namely Student Initiative of BASE Factor 1, Social Attention of BASE Factor 2, Success / Failure of BASE Factor 3, Social Attraction of BASE Factor 4, and Self-Confidence of BASE Factor 5. BASE test consists of sixteen items, categorized into the five main BASE factors. The input to the system was first fuzzified and Fuzzy Associative Memory (FAM) table were constructed to handle the fuzzy rules of the five factors of BASE case study. The defuzzification technique is used to estimate the BASE factor and determine the levels of academic self-esteem such as low self-esteem, moderate self-esteem, and high self-esteem. In addition, fuzzy expert advisory provides explanation and also explain how a diagnosis is reached for a particular case. The results showed that the fuzzy expert prototype system presented in this paper provided a reliable and accurate outcome after several test cases have been performed. An analysis to Bandar Darulaman Community College respondent shows that high correlation relationship (0.403) between Student Initiative and Self Confidence. This indicates that, respondent who have initiative have self confidence in communication or group activity and can give an idea.
ACKNOWLEDGEMENTS

All praises and thanks are to Allah s.w.t, the Lord of the 'Al-Amin.

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Amin.
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CHAPTER 1

INTRODUCTION

This section presents the background of the project that focuses on the hybrid approach using fuzzy logic and expert system. The main idea of the study is to develop the prototype system using the integration of both approaches in counselling domain. The section also presents the problem statement, objectives, significance and scopes of the project.

1.1 BACKGROUND

Behavioural Academic Self Esteem (BASE) was founded on Coopersmith’s (1967) theory and research. BASE measures children’s academic self-esteem by using direct observation of their classroom behaviours. Teachers, parents, or other observers draw on their first-hand experience with a specific child to rate how often the child behaved in particular ways. In addition, this test has been used with children of preschool, elementary, and junior high school, both individually and in groups to identify students level of academic self-esteem, providing a rationale for intervening in the academic lives of students who need motivational stimulation, assessing how programs affect student
The contents of the thesis is for internal user only
REFERENCES


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