

**Universiti Teknologi MARA**

**Financial Assessment Using Fuzzy Logic:  
A BR1M Illustration**

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## **ABSTRACT**

This research is about the application of fuzzy logic system in financial assessment system. Finance is one of crucial information when dealing with the process of decision making that involved with money, and miscalculation may lead to financially lost to the organization. The purpose of this research is to computerize the process of decision making, in which the system is developed according to the rules set by the organization, and also to develop a fuzzy logic system in order to identify whether the system is able to determine the qualification of BR1M applications where the income is slightly higher than the specified maximum passable income set by the organization. Therefore, for the purpose of this research, BR1M 2.0 has been selected as a platform to realize the purposes of this research. Public already knows that BR1M application is targeted to two group, first is the BR1M aid for single application (RM 250) and household application (RM 500). The qualification of an applicant to receive BR1M is dependent on the information feed by the applicant, where the applicant is qualified to receive either single BR1M aid or household BR1M aid, or not qualified at all to receive the both aids. The fuzziness characteristics in the determination the qualification of BR1M applicant hence become an attracting factor to conduct this research, by deciding to use salary and household income as the main factor to represent the fuzziness of this system. Finally, this research has concluded that other than income, the research in fuzzy logic system can be broadened by considering other factors that are not included in the rules set by the organization.

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