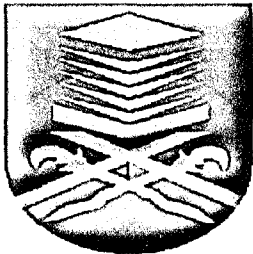


**APPLICATION OF SHUFFLED FROG LEAPING
ALGORITHM (SFLA) TO LONG TERM GENERATION
EXPANSION PLANNING**

This thesis is presented in partial fulfillment of the requirement for the award of
the Bachelor of Engineering (Hons) Electrical



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ABSTRACT

This thesis presents a solution to generation expansion planning problem based on Shuffled Frog Leaping Algorithm (SFLA). The proposed SFLA in this study is developed using Matlab programming. This method is tested for 15 existing power plant and five generation candidates within 10 years of planning. The simulation results obtained using the proposed algorithm show that the minimum cost can be obtained for types of candidate.

Keywords - shuffled frog leaping algorithm (SFLA), Generation expansion planning (GEP)

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