

**OPTIMAL ALLOCATION OF THERMAL GENERATING UNITS THROUGH
SHUFFLED FROG LEAPING ALGORITHM**

This thesis is presented in partial fulfillment for the award of the
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**FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA
MALAYSIA**



AMIRUL HAKIM BIN MOHD JAMIL

**FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA
40450 SHAH ALAM
SELANGOR DARUL EHSAN**

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ABSTRACT

This thesis presents the solution of economic load dispatch problem with valve-point effect using Shuffled Frog Leaping Algorithm (SFLA). Three and six generator systems are used to test the effectiveness of the proposed method. Sum of the optimal values of power for each generator is able to fulfill the power demand and minimize the operating cost compared to the Particle Swarm Optimization (PSO) method. The proposed algorithm is developed using MATLAB programming

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