ABSTRACT

   Indonesian graphem to phonem (G2P) conversion represents an assigment to map each graphem/symbol spelling any word known in Indonesian to phonemic representation/pronounciation symbol. System in this final project deals with phonemic mapping to allophone that represents a phonem specifically.

   Multi Layer Perceptron (MLP) is a neural network model having one or more hidden layer that able to solve complex problems such as G2P conversion issue. MLP is trained using Back Propagation algorithm to solve the problem given. Test result on testing data show that MLP can provide a good performance in handling G2P problem by considering the training parameter used.

Keywords: grapheme-to-phoneme conversion, alophone, Indonesian, multi-layer perceptron, neural network, back propagation