

# Alpha-Numeric Character Recognition using Back Propagation Neural Network

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*Abstract*— In this paper we present a novel approach for hand written character recognition for both alphabet and numeric characters using feed forward neural network using gradient decent back propagation algorithm. Inputs to the system are scanned images of handwritten alpha-numeric data in jpeg format picture which is then processed and extracted features are then applied to a neural network recognizer to produce recognized output.

*Keywords* - hand written input, image processing, neural network, back propagation algorithm.