

SOFT COMPUTING FEATURE EXTRACTION ALGORITHM WITH MINIMUM ENTROPY

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ABSTRACT

Feature Extraction (FE) is one of the most noteworthy and difficult task in the field of Neural Network (NN) based Classification. It involves in reducing the amount of resources required to describe a large set of data well aimed, which classify the Power Quality (PQ) disturbance signals with sufficient accuracy and reduces the computation burden of Neural Network. In this work, we propose to branch out the conventional Principle Component Analysis (PCA) feature extraction method in order to produce the optimum features with high confidence in producing best results of classification of NN classifier and it is also a step towards the goal in maintaining the sufficient accuracy of NN classifier with minimum entropy (information).