COMPARATIVE STUDY ON TWO TEXTURE FEATURES METHODS FOR MRI IMAGE ANALYSIS

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Abstract

Two feature extraction methods, gray-level co-occurrence matrix and Fourier transform, are compared for land cover classification, which is viewed as texture of the image. Comparing results between these two texture features show that feature derived from the gray-level co-occurrence matrix give the better result than Fourier transform. With these features, supervised classification is carried out by the multi-layer perceptron (MLP) neural network using the Back Propogation Algorithm.

Keywords: Gray-level Co-occurrence Matrix, Fourier Transform, Texture Analysis Neural Network, MRI Image.