

ABSTRACT

Pancreas diseases are the most common disease which causes mortality worldwide. In this study, the computed tomography images are used for the diagnosis of the pancreas diseases by the effective extraction of the global features of the images and feature selection techniques. The images are recognized with the statistical and the shape based features. The features are extracted by Gaussian filtering, the feature outputs are combined by watershed segmentation. Feature selection techniques such as Information Gain, correlation based feature selection are employed with GLCM algorithm which is used as an optimal initialization of the clusters. The dataset of pancreas diseases is considered and the training and testing are done by Support Vector Machine classifier.