

## **An Extraction of Cancer Region from MR Images Using Fuzzy Clustering Means and Morphological Operations**

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**Abstract :** Cancer diagnosis is very difficult task. Magnetic resonance imaging (MRI) scan is used to produce image of any part of the body and provides an efficient way for diagnosis of cancer or tumor. In existing method, fuzzy clustering mean (FCM) is used for the diagnosis of the tumor. In the proposed method FCM is used to diagnose the cancer of the foot. FCM finds the centroids of the clusters of the foot cancer obtained from MRI images. FCM thresholding result shows the extract region of the cancer. Morphological operations are applied to get extracted region of cancer.

**Keywords :** magnetic resonance imaging (MRI), fuzzy C mean clustering, segmentation, morphological operations

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