

AUTOMATIC IDENTIFICATION AND DETECTION OF BRAIN TUMOR USING CLUSTERING TECHNIQUES

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Identification of location of brain tumors in 3D and intensity of tumors from brain magnetic resonance images (MRIs) is extremely challenging and necessitates the automatic segmentation of tumors. Brain tumor segmentation using MRI has been an intense research area. A stochastic model for characterizing tumor texture in brain MR images is proposed. The model is proposed to develop for patient-independent brain so that tumor texture feature extraction is performed and tumor segmentation is successfully carried out in magnetic resonance images (MRIs). Due to complex appearance in MRI, Brain tumor texture is formulated using a multiresolution-fractal model known as multi-fractional Brownian motion (mBm). A multifractal feature-based brain tumor segmentation method is proposed to segment and label tumor areas. Database to be used in the study is the multimodal brain tumor segmentation (BRATS) benchmark 2013 with two fold cross validation.