

CONTENT-BASED IMAGE RETRIEVAL (CBIR) SYSTEM AIDED TUMOR DETECTION

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ABSTRACT

Nowadays, automatic defects detection in MRI (Magnetic Resonance image) is very important in many diagnostic and therapeutic applications. This paper introduces a Novel automatic brain tumor detection method to determine any abnormality in brain tissues. Here, a number of features which represent a description of brain tissues are extracted. The retrieval of images based on visual features technique called Content-Based Image Retrieval (CBIR) system is used. Basically, this system goal is to support image retrieval based on content properties (e.g., shape, color, texture), usually encoded into feature vectors. In this paper, each image that is stored in the database has its features extracted and compared to the features of the query image. The program output is the image that very closes matching the input image and its description. The program efficiency with respect to good description for a new input image was tested. It gives efficiency approximated 98% .

KEYWORDS: Content-Based Image Retrieval, Image Database, Image Descriptors, Brain Tumor Detection