Content Based Image Retrieval using Hexagonal Resampling and Detection of Ailments in MRI scans of Brain

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Abstract— Image processing is an expanding field with its applications spreading across several domains. There is extensive use of digital images for medical purposes which involves critical decisions to be made based on the elucidation of medical images such as MRI scan, CT scan, X-ray etc., and calls for substantial research. This paper is based on the project aimed at processing of MRI scans of brain. The proposed system performs content based retrieval of cases similar to the MRI scan loaded as query using gabor wavelet based edge detection on hexagonal resampled grid, and proposes an algorithm for identification of ailment, if present. The work is restricted to identification of three brain pathologies viz. tumour, bleed and infarct. The project intends to assist doctors in identifying the abnormalities.

Keywords: Paper format, publish, template, sample

1. Introduction

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