

Research Proposal

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Department : Computer Applications

Area of research: Image Processing- Medical Image Processing

The proposed area of my research is Medical Image Processing. My research is focused on human skin cancer. It is the common type of cancer. It is common among the people who work or play sports outside and among sunbathers. One of the most dangerous types of skin cancer is Melanoma; the survival rate is very low. Early detection of melanoma can potentially improve the survival rate. This is a major consequence in the current situation. So I have decided to concretely focusing on my research in to the type of skin cancer- Melanoma. The detection of the Melanoma is widely classified in to 4 basic components, i.e. Image processing which includes firstly the Pre-processing of the input image, Segmentation is used for segmenting out of the region of interest from the given image. The proposed method use for this is fuzzy C-Means clustering algorithm. The features extracts after the segmentation, collect the relevant features (features reduction) using Classification. The classification method proposing for this is Deep Learning based algorithm. In this proposed research and after the completion of the research hope that the accuracy and efficiency rate is very high that compared to the existing methods.