

# An Amend Implementation of Brain Tumor Detection Using Segmentation Based On Artificial Intelligence

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*Abstract* — Implementation of a segmentation process of the MRI data with Artificial Intelligence is resented in this study to detect various tissues like white matter, gray matter, csf and tumor. The advantage of hierarchical self organizing map and clustering algorithms are used to classify the image layer by layer. The lowest level weight vector is achieved by the abstraction level. We have also achieved a higher value of tumor pixels by this approach. The computation speed of the proposed method is also studied. The multilayer segmentation results of the Soft Computing are shown to have interesting consequences from the viewpoint of clinical diagnosis.

Soft computing technique shows that MRI brain tumor segmentation using SOM & Clustering Algorithm also perform more accurate one.

*Keywords*— Image analysis, segmentation, SOM, K-means Clustering, Artificial Intelligence, tumor detection

# IJDACR