



RESEARCH ARTICLE

**IMAGE SEGMENTATION FOR TUMOR DETECTION
USING FUZZY INFERENCE SYSTEM**

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Abstract— Image segmentation on surgical images plays a vital role in diagnosing and analyzing the anatomy of human body. The area of image segmentation has made an extensive ideology for classifying biomedical images. One such application for segmenting and classifying MRI brain images using fuzzy based control theory is proposed in this project. A special technique called FIS is used in brain image segmentation. The proposed FIS technique plays a promising part in identifying the tumor in brain image. In FIS technique, fuzzy rules are coined which helps in segmenting the image.

Key Terms: - MRI brain images; FIS technique; Segmentation; Tumor detection

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