

## **Automatic Classification Using Dynamic Fuzzy C Means Algorithm and Mathematical Morphology: Application in 3D MRI Image**

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**Abstract :** Image segmentation is a critical step in image processing and pattern recognition. In this paper, we proposed a new robust automatic image classification based on a dynamic fuzzy c-means algorithm and mathematical morphology. The proposed segmentation algorithm (DFCM\_MM) has been applied to MR perfusion images. The obtained results show the validity and robustness of the proposed approach.

**Keywords :** segmentation, classification, dynamic, fuzzy c-means, MR image

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