

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

Authors : Abdelkhalek Bakkari

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

Conference Title : ICCVISIP 2014 : International Conference on Computer Vision, Image and Signal Processing

Conference Location : Barcelona, Spain

Conference Dates : October 27-28, 2014