

5 Conclusions

This paper proposed an improved GAC model for the images with noise, bias field and weak boundaries. This paper model utilizes the window function to investigate the grey information of local region, while introduce the local information entropy to describe the distribution of the grey information. Compared with GAC model, this method can achieve the high segmentation accuracy. Compared with C-V and RGAC model, this method can well segment the images with bias field. And compared with LBF and LGD model, this method has more choice of kernel parameters.

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