



Segmentation and Interpretation of Solid Lesions in Ct Using Volume Estimation and Classification

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Abstract: In medical application, the change of tumor's size is an important issue for monitoring the cancer therapeutics. Estimating the volume of a tumor need its description in 3-D which is called segmentation. This system used to find the tumor area on the captured liver image which has been collecting from the ct scan report. Here region-based segmentation technique is used to extract the images into homogeneous segments or regions to ease the analysis of image. Although, simply calculating the voxels within a segmentation result can show to ample changes in the volume, if the lesion has been segmented delicate differently by various segmentation technique or different scan. In this system gives a fast, generic algorithm for calculating the volume of tumor from ct scan image that regards partial volume correction at the edge of a segmentation result. It can be applied to homogeneous lesions and inhomogeneous lesions. In 3-D image, due to limited spatial resolution some voxels will loss at the border of the segmentation output, to overcome these problem pvc is used. Finally these algorithms provide a more accurate estimation of tumor volume.

Keywords: CT, partial volume correction, segmentation, spatial subdivision, lesion.

