Abstract

To integrate medical images and image processing, image segmentation plays an essential role. Image segmentation is an operation that separates the image into different segments. There are several image segmentation algorithms that are at present available. In this paper, three segmentation algorithms have been implemented and discussed namely: Active Contour without edges, Localized region Based active contour and Distance Regularized Level Set. To detect the thyroid disorders various imaging modalities are used: MRI, Scintigraphy, SPECT and Ultrasound. Out of these, Ultrasound Imaging and Scintigraphy have been discussed in this paper. The segmentation algorithms have been implemented on these two modalities to segment the thyroid gland.

References

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Comparison of Thyroid Segmentation Algorithms in Ultrasound and Scintigraphy Images

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