

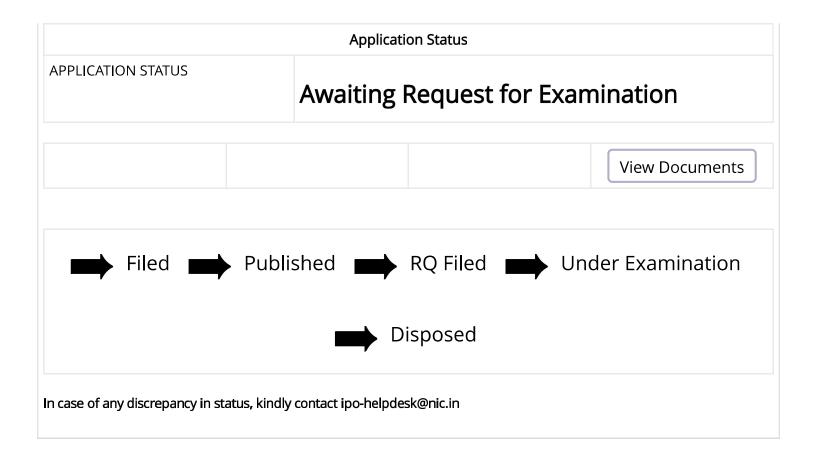
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(57) Abstract :

This invention aimed to investigate the application impact of thoracic computed tomography (CT) under a single threshold segmentation algorithm in the diagnostic process of heart failure (HF) complicated by sleep apnea conditions. The study included thirty individuals who had been diagnosed with heart failure that was aggravated by sleep apnea syndrome. The control group consisted of another thirty patients who did not have sleep apnea syndrome. These patients' ages, heights, and weights were comparable to those in the experimental group. Then, a model for thoracic CT image segmentation was developed inside the single threshold segmentation technique framework, and the faster region convolutional neural network (Faster RCNN) was used to identify the thoracic respiratory lesions. The thoracic CT examination was performed on each patient, and the resulting pictures were analyzed using the algorithm model described earlier. After that, observations were made on the patient's respiratory tract morphology after therapy. According to the findings, the enhanced single threshold segmentation algorithm was successful in the image segmentation of patient lesions, and the Faster RCNN was able to complete the labeling of the lesion area in the CT image. Both of these accomplishments were suggested by the findings.

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