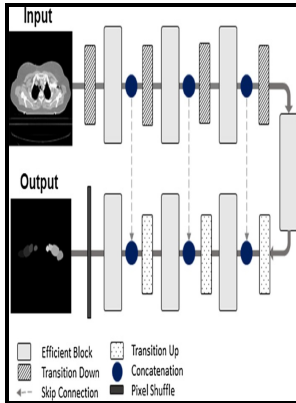


# Quantitative comparison of automatic contouring algorithms.

University of Kansas - Frontiers



Description: -

-Quantitative comparison of automatic contouring algorithms.

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Notes: Thesis (M.Sc.) - University of Kansas, Department of Computer Science, 1972.

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Tags: #Evaluation #of #measures #for #assessing #time

## Quantifying the accuracy of automated structure segmentation in 4D CT images using a deformable image registration algorithm

Only the forward projection for each view was parallel accelerated on GPU. This study aimed to evaluate the correlation of new and commonly used evaluation measures with time-saving during contouring.

## A comparative study on the contour tracking algorithms in ultrasound tongue images with automatic re

Quan TM, Hildebrand DG, Jeong W-K. With this assumption, we establish 2 mm of  $\sigma_v$  for the patient pilot test and obtain the desired results.

## 19.5. Contouring algorithm

And it will be discussed later in the discussion part. It was then extrapolated to the limiting slices obtaining a volume of interest VOI to which 2.

## Automatic detection of contouring errors using convolutional neural networks

Dong H, Yang G, Liu F, Mo Y, Guo Y. Figure shows a comparison of six manually drawn volumes with the automatically drawn counterparts in mesh format for visual inspection. ROI drawing depended mostly on the software tool.

## Quantifying the accuracy of automated structure segmentation in 4D CT images using a deformable image registration algorithm

The author has acknowledged the permission in the Acknowledgments. Meantime several image content such as the rib position, the heart edge definition, the fibrous structures all has been better corrected with bilateral filtering. We take sliding motion into account and re-designed the bilateral filtering based regularization term:  $G_x$  is the Gaussian kernel on the spatial domain with the variance  $\sigma_x^2$ ;  $G_\mu$  is another image domain-based Gaussian kernel with the variance  $\sigma_\mu^2$ ; and  $G_v$  is the DVF domain Gaussian kernel with the variance  $\sigma_v^2$ .

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Most operate by estimating the value of the surface at a regular gridwork of points across the map area. Multiple ROI study This study was performed with those patients who had multiple affected regions within their body. LeCun Y, Bengio Y, Hinton G.

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