A Novel Method of Visualizing Three-Dimensional Image Dataset

Technology description

The invention is a novel method of visualizing C mode images on any 3D image dataset (OCT, SOCT, MRI, CT, Ultrasound etc.by adopting the natural curvature of tissue or region of interest. To achieve this goal, the inventors use both automated segmentation and manually configured contour models (but mathematically interpolated using Spline interpolation) methods. Users can set 3D model lines for a plane where C mode image sampling occurs. As a result, the C mode image shows only the target tissue of interest eliminating artifacts and distortions from the image.

Advantages

1) Eliminates unwanted artifacts & distortions from C mode images making interpretation much easier for clinicians.
2) Enables previously undocumented anatomical features to be visualized.

Institution

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