

Method for Implementation of Recursive Hierarchical Segmentation on Parallel Computers

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DESCRIPTION

The technology is a recursive hierarchical segmentation algorithm implementation method in parallel computing platform. The method involves setting a bottom level of recursion defining the stoppage of recursive image segmentation. An intermediate level of recursion where the recursive division changes from parallel implementation into serial implementation, is set. The image segmentation algorithm is implemented according to the set bottom and intermediate levels of recursion.

FEATURES AND BENEFITS

- The computation time is decreased due to the implementation of recursive hierarchical segmentation algorithm.
- Creation of hierarchical segmentation on large data sets is enabled due to parallel processing.
- The algorithm results in a straightforward format consisting of a hierarchical set of image segmentations in either two or three spatial dimensions. This hierarchical presentation allows the user to select segmentations of interest and perform additional analyses.

APPLICATIONS

- Medical Imaging
- Remote Sensing
- Image Data Mining
- Facial Recognition
- Sonar and Radar Data Analysis

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-14305-1, please contact:

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