

عنوان مقاله:

A New Method for Ct Image Segmentation of Liver Tumor Based on Greedy Algorithm and Genetic Optimization

محل انتشار:

دومین کنفرانس ملی رویکردهای نوین در مهندسی کامپیوتر و برق (سال: 1395)

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خلاصه مقاله:

Liver cancer is one of the major death factors in the world. Transplantation and tumor removal are two main therapies in common clinical practice. Both tasks need image assisted planning and quantitative evaluations. Both tasks need image assisted planning and quantitative evaluations. Automatic liver segmentation is required for corresponding quantitative evaluations. Conventional approaches in liver segmentation consist of finding the initial liver border followed by tuning the border to the final mask. finding the liver initial border is of great importance as the latter step largely depends on the initial step. Segmentation of CT images to diagnose liver tumors, is faced with constraints. Some of these limitations, Speed, cost and accuracy. In this paper, We Try to use appropriate algorithms to improve the proposed restrictions and new approach segmentation of CT images provide. We use a combination of greedy algorithm and Genetic Algorithm, reduce costs segmentation and Also, achieve high-speed convergence. Results, Demonstrate our superiority over previous methods

کلمات کلیدی:

Segmentation, liver tumor, greedy algorithm, genetic algorithm

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