

## عنوان مقاله:

Diagnosis and analysis of liver cancer using image processing

## محل انتشار:

پنجمین کنفرانس علمی تحقیقات کاربردی در علوم و تکنولوژی ایران (سال: 1400)

تعداد صفحات اصل مقاله: 5

## نویسندگان:

Mohammad Kazem Beshkani - *Bachelor of Computer Science, Software Trend, Hakim Nezami Institute of Higher Education, Quchan*

Esmail Isazadeh - *Department of Information Technology Engineering, Faculty of Industrial Technologies, University of Technology, Urmia, Iran*

Farzin Afshin Rad - *Department of Civil Engineering, Faculty of Engineering, Shahr-e—Qods Branch, Islamic Azad University, Tehran, Iran*

## خلاصه مقاله:

The detection and diagnose of liver tumors from CT images by using digital image processing, is a modern technique depends on using computer in addition to textural analysis to obtain an accurate liver diagnosis, despite the method's difficulty that came from liver's position in the abdomen among the other organs. This method will make the surgeon able to detect the tumor and then easing treatment also it helps physicians and radiologists to identify the affected parts of the liver in order to protect the normal parts as much as possible from exposure to radiation. This study describes a new 2D liver segmentation method for purpose of transplantation surgery as a treatment for liver tumors. Liver segmentation is not only the key process for volume computation but also fundamental for further processing to get more anatomy information for individual patient. Due to the low contrast, blurred edges, large variability in shape and complex context with clutter features surrounding the liver that characterize the CT liver images. In this paper, the CT images are taken, and then the segmentation processes are applied to the liver image which will find, extract the CT liver boundary and further classify liver diseases

## کلمات کلیدی:

.medical image methods; liver cancer diagnosis and treatment

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1290710>

