

## Discover a New Technique for Cancer Recognition by Analysis and Determination of Fractal Dimension Images in Matlab Software

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**Abstract :** Cancer is a terrible disease that, if not diagnosed early, therapy can be difficult while it is easily medicable if it is diagnosed in early stages. So it is very important for cancer diagnosis that medical procedures are performed. In this paper we introduce a new method. In this method, we only need pictures of healthy cells and cancer cells. In fact, where we suspect cancer, we take a picture of cells or tissue in that area, and then take some pictures of the surrounding tissues. Then, fractal dimension of images are calculated and compared. Cancer can be easily detected by comparing the fractal dimension of images. In this method, we use Matlab software.

**Keywords :** Matlab software, fractal dimension, cancer, surrounding tissues, cells or tissue, new method

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