

## Fractal Analysis Of Breast Masses In Mammograms Synthesis Lectures On Biomedical Engineering

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### Fractal Analysis Of Breast Masses

The aim of the present study is to employ fractal analysis for the classification of breast masses by using only their contours. 31 - 33 Even though fractal analysis has been widely used in the analysis of biomedical images, only a few studies have specifically applied the method to study and classify mammographic masses (as reviewed above). FD may be used as a quantitative measure of the complexity of the contour or boundary of an object.

### Fractal Analysis of Contours of Breast Masses in Mammograms

Fractal Dimension: Application to Breast Masses Fractal dimension can characterize the shape differences between benign masses and malignant tumors Fractal analysis can also be used to characterize the texture of suspicious regions in mammograms

### Fractal Analysis of Breast Masses in Mammograms

Fractal analysis has been shown to be useful in image processing for characterizing shape and gray-scale complexity. Breast masses present shape and gray-scale characteristics that vary between benign masses and malignant tumors in mammograms.

### Fractal analysis of contours of breast masses in mammograms.

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### Fractal Analysis of Contours of Breast Masses in ...

Shape Analysis of Breast Masses in Mammograms via the Fractal Dimension Abstract: ...

### Shape Analysis of Breast Masses in Mammograms via the ...

Shape features such as compactness, fractional concavity, Fourier factor, spiculation index, and fractal dimension have been developed for the purpose of classifying breast masses as benign or malignant based upon their contours.

### Pattern classification of breast masses via fractal ...

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### Fractal Analysis Of Breast Masses In Mammograms Synthesis ...

Fractal analysis has been shown to be useful in image processing for characterization of shape and gray-scale complexity. Breast masses present shape and gray-scale characteristics that vary between benign masses and malignant tumors in mammograms.

### Seminar: Fractal Analysis of Breast Masses in Mammograms ...

Therefore, fractal analysis is useful in studying the complexity of 2D contours. Considerable research has been carried out on application of fractal on breast cancer detection. Chen et al. described fractal characteristics to differentiate benign from malignant lesions focusing on the study of texture features.

### An Efficient Fractal Method for Detection and Diagnosis of ...

Fractal analysis of signatures of contours of breast masses may help in differentiating between mammographic images of benign masses and malignant tumors in screening medical examinations. The method is quick - one may analyze the whole signature at once to calculate Higuchi's fractal dimension of the signature.

### Simple fractal method of assessment of histological images ...

Fractal analysis is useful in digital image processing for the characterization of shape roughness and gray-scale texture or complexity. Breast masses present shape and gray-scale characteristics in mammograms that vary between benign masses and malignant tumors.

### Fractal analysis of breast masses in mammograms (eBook ...

The results which were examined by different types of breast density showed that the proposed method was able to yield quite satisfactory detection results. Secondly, noting that contours of masses playing the most important role in diagnosis of different mass types, we defined new fractal features based on information extraction from the contours.

### An Efficient Fractal Method for Detection and Diagnosis of ...

We demonstrate the usefulness of fractal analysis via a frequency domain approach applied to one-dimensional signatures of the two-dimensional contours of breast masses in mammograms. The 1/f model related to fractional Brownian motion was applied via power spectral analysis of signatures to estimate the fractal dimension.

### Fractal analysis and classification of breast masses using ...

Fractal analysis is useful in digital image processing for the characterization of shape roughness and gray-scale texture or complexity. Breast masses present shape and gray-scale characteristics in mammograms that vary between benign masses and malignant tumors.

### Fractal analysis of breast masses in mammograms ...

The aim of this study was to look for possible differences between malignant and benign breast masses using fractal analysis, nonlinear chaotic dynamical systems and time series of tumor contour on DCE-MRI. We extracted several chaotic features to quantify the degree of chaos in breast tumor margins.

### Feature Extraction and Classification of Breast Tumors ...

Limited studies have been conducted on the application of fractal analysis specifically for classifying breast masses based on shape. The fractal dimension of the contour of a mass may be computed...

### Fractal Analysis of Contours of Breast Masses in ...

The systematic mammographic evaluation of a breast mass involves independent assessments of its size, location, density, shape, clarity of margins, and interval change from prior examination. Additional fine-detail mammograms should be obtained to facilitate this analysis, especially when an equivocal interpretation is planned.

### Breast masses: mammographic evaluation. | Radiology

For example, fractal dimension has been used in detection and segmentation of microcalcifications depicted on digital mammograms [14, 23], classification between benign and malignant breast masses , classification and analysis of mammographic parenchyma patterns [17, 25], and analysis of trabecular bone structure [26, 27]. However, to the best of our knowledge, the fractal dimension has not been applied in any CBIR schemes to search for similar medical images (i.e., those depicted breast ...

### Assessment of Performance Improvement in Content-based ...

Individual factor and group-based interaction ANOVA analysis was performed to study the association between fractal dimension, case pathology, breast density, and reader experience level. The consistency of the observed trends depending on gaze data representation was also examined.