

## Lacunarity measures on Mammographic Image Applying Fractal Dimension and Lacunarity Measures

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**Abstract :** Structural texture measures are used to address the aspect of breast cancer risk assessment in screening mammograms. The current study investigates whether texture properties characterized by local Fractal Dimension (FD) and lacunarity contribute to assess breast cancer risk. Fractal Dimension represents the complexity while the lacunarity characterizes the gap of a fractal dimension. In this paper, we present our result confirming that the lacunarity value resulted in algorithm using mammogram images states that level of lacunarity will be low when the Fractal Dimension value will be high.

**Keywords :** breast cancer, fractal dimension, image analysis, lacunarity, mammogram

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