

Fractal Geometry Segmentation Of High Resolution Polarimetric Synthetic Aperture Radar

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Summary:

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Texture description and segmentation through fractal ... Fractal geometry is receiving increased attention as a model for natural phenomena. In this paper we first present a new method for estimating the fractal dimension from image surfaces and show that it performs better at describing and segmenting generated fractal sets. Introduction to Fractal Geometry Fractal geometry offers almost unlimited waysof describing, measuring and predicting these natural phenomena. But is it possible to define the whole world using mathematical equations? This article describes how the four most famous fractals were created and explains the most important fractal properties, which make fractals useful for different domain of science. Infrared Image Segmentation by Combining Fractal Geometry ... mathematic tool for image segmentation. 3) Interactive segmentation. Interactive segmentation has been widely applied in many domains, for example, interactive segmentation is suitable used to segment medical image. 4) The research for image segmentation assessment has become a hot point problem in image segmentation domain.

Fractal - Wikipedia A fractal in three-dimensional space is similar, however, a difference between fractals in two dimensions and three dimensions, is that a three dimensional fractal will increase in surface area, but never exceed a certain volume. Texture Description and Segmentation Through Fractal Geometry In this paper we first present a new method for estimating the fractal dimension from image surfaces and show that it performs better at describing and segmenting generated fractal sets. A New Image Texture Segmentation Based on Contourlet ... of roughness [6]. Fractal geometry has been used in applica-tions like texture segmentation [7â€“10], texture classiï-cation [11â€“14], and texture interpolation [15]. Introduced by Mandelbrot [16,17], fractal geometry has been used to model many complex natural phenomena [18]. One of the key parameters in fractal geometry is fractal dimension (FD).

(PDF) Texture Segmentation Using Fractal Dimension To segment a scene into the desired number of classes, an unsupervised K-means like clustering approach is used. An Introduction to Fractals - Paul Bourke In one dimension consider a line segment. If the linear dimension of the line segment is doubled then obviously the length (characteristic size) of the line has doubled. In two dimensions, ff the linear dimensions of a rectangle for example is doubled then the characteristic size, the area, increases by a factor of 4.