Abstract

Today Fractal geometry is completely new area of research in the field of computer science and engineering. It has wide range of applications. Fractals in nature are so complicated and irregular that it is hopeless to model them by simply using classical geometry objects. Benoît Mandelbrot, the father of fractal geometry, from his book The Fractal Geometry of Nature, 1982. This paper present construction of famous fractal images- Mandelbrot set and Julia set using 3D iterated function system which gives real look and feel of complex natural fractal images.

References


- [ONLINE AVAILABLE]: Bulusu Rama#, Jibitesh Mishra, Generation of 3D Fractal Images for Mandelbrot and Julia Sets


- http://math. bu. edu/DYSYS/explorer/tour1. html

- http://library. thinkquest. org/26242/full/

**Index Terms**

Computer Science

Image Processing

**Keywords**

Fractals  IFS  3D images  3D rendering  Mandelbrot set and Julia set  affine transformation