Abstract

Fractals are self-similar images. There are many techniques for generating fractals. IFS are one of them. IFS use a set of linear transformations for generation of fractals. We propose a method of modifying IFS such that non-linear transformations can be used for generating pleasant looking fractals. We also show a technique which ensures convergence of the fractal Images. Non-linear fractals have been developed by Frederic Raynal, Evelyne, Lutton and Pierre Collet [1]. It is difficult to ensure that convergence using their method. Our method is similar to the one in IFS and very easily understandable [2]. Fractal compression is also one of the important compression techniques [3].

References

Difference based Non-Linear Fractals using IFS

- Barnsley, A better way to compress images, Byte, January 1988.

Index Terms

Computer Science
Applied Mathematics

Keywords
IFS  Fractals  non-linear