ABSTRACT

Fractal image compression gives some desirable properties like resolution independence, and fast decoding. But still suffers from a (sometimes very) high encoding time, depending on the approach being used.

This final project presents a method to reduce the encoding time of this technique by reducing the size of the domain pool based on the Entropy value of each domain block. Experimental results on standard images show that the proposed method yields superior performance over conventional fractal encoding.

Keywords: Fractal Image Compression, Iterated Function Systems, *domain block, range block,* Entropy