Abstract

Fractal image compression reduces amount of redundancy to great extent using suitable affine transformations. This requires less number of bits to encode the same image. However the process of encoding requires enormous computational processing to generate required fractal codes. A distributed parallel method is proposed to reduce computational time by portioning and distributing the input image among different computing nodes, as each computing node
performs encoding and block matching individually; which results in significant reduction in processing time to generate fractal codes. This paper presents a review of different parallel algorithms and architecture that has been applied to enhance the speedup also can be used for fractal image encoding task.

References


Index Terms

Computer Science    Image Processing

Keywords

Fractal Image Compression  Cn's (computing Nodes)  Iterated Function System
(ifs)    Domain Offset
Speedup

Load Balancing.