URN etd-0407109-183703-144
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Statistics This thesis had been viewed 66 times. Download 0 times.
Department
Year 2008
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title A VLSI Design for High Speed Fractal Image Coding
Date of Defense 0000-00-00
Page Count 66
Keyword
Fractal compression
VLSI design

Abstract
Fractal is a complex science, it can create nature image by regular、similar. The fractal geometry describes nature geometry in the main nature world. In long time ago, Barnsley support fractal compression by fractal concept, but he never announced his fractal compression method until his student Jacquin supported practical fractal compression method. In pass year, fractal compression has been interesting in research field. Although fractal image compression produces high quality at high compression ratio, it needs extremely long encoding time. In this paper, several algorithms are developed to attack this problem. They are four-direction approach， the control points approach, together with a history table design and we also design VLSI chip for fast fractal image. experiment results shows that our method and VLSI design are faster than the exiting algorithms.
Advisory Committee - advisor

Files No Any Full Text File.
Date of Submission 2008-07-24