URN etd-0407109-183711-870
Author Chih-Wen Wang
Author's Email Address No Public.
Statistics This thesis had been viewed 64 times. Download 129 times.
Department
Year 2007
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title An Edge Sensing Method for Color Filter Array Interpolation
Date of Defense 0000-00-00
Page Count 50

Keyword
Bayer pattern
color filter array
interpolation

Abstract
The color filter array on the imaging sensor is used to grab the picture. The Bayer pattern is used to reduce the cost, there is only one color at each pixel, the other two missing color must be interpolated. Many algorithms have been proposed, but still make artifacts and false color. The improved hybrid algorithms were proposed to improve the color interpolation. The edge-directional interpolation is first applied for green-color components. The color difference interpolation is then applied for red/blue-color components. Experiment results show that the proposed method is better than conventional methods.
Advisory Committee Chia-Nian Shyi - advisor

Files etd-0407109-183711-870-002.pdf
etd-0407109-183711-870-003.pdf
etd-0407109-183711-870-001.pdf

indicate access worldwide
Date of Submission 2008-08-25