Abstract

In this paper, a fast lossless image compression method is introduced for compressing medical images, it is based on splitting the image blocks according to its nature along with using the polynomial approximation to decompose image signal followed by applying run length coding on the residue part of the image, which represents the error caused by applying polynomial approximation. Then, Huffman coding is applied as a last stage to encode the polynomial coefficients and run length coding. The test results indicate that the suggested method can lead to promising performance.

References

Fast Lossless Compression of Medical Images based on Polynomial

328-336.

Index Terms

Computer Science
Bio-medical Sciences

Keywords

Medical images    lossless image compression    predictive coding and polynomial representation