Abstract

JPEG2000 is the new standard for the compression of images, which succeeds to JPEG. This standard is motivated primarily by the need for compressed image representations that offer new features increasingly demanded by modern applications, and also offering superior compression performance, especially at low bit-rates. This new standard has many features and
characteristics (region of interest, several types of decompression). But these characteristics are accompanied by a much higher algorithmic complexity than JPEG (about five times more complex). In this paper we are interested in studying the algorithm of JPEG2000 and the most complex in the JPEG2000 compression process, the EBCOT entropy encoder, and its performance are presented.

Reference

- S. Medouakh, Z.E. Baarir, “L’utilisation des filtres 9/7 et 5/3 dans la norme JPEG2000 ”
Study of the Standard JPEG2000 in Image Compression

6èmes Séminaire Nationales en Informatique Biskra, Mai 2008, pp241-245.

Index Terms

- Computer Science
- Image Processing

Key words

- Image compression
- JPEG2000
- JPEG
- Wavelet Transforms
- EBCOT