Remote Sensing is simply defined as the observation of an object from some distance. By using the observation of object we can collect the information of an object without any physical contact with that object. We present a new technique for the compression of remote sensing images based on oriented wavelet transform. A 3D-Oriented Wavelet Transform (OWT) is introduced for efficient remote sensing image compression. To maximize the transform coding gain three separable 1D transforms are implemented in the same direction. This paper focus on compressing the remote sensing images based on 3D-OWT scheme and JPEG2000. Result show that our scheme with filters performs as well and better in lossless coding systems using 3D Oriented Wavelet Transform on remote sensing images.
References

- James S. Walker, "Wavelet-based Image Compression", Transforms and Data Compression.

Index Terms

Computer Science
Signal Processing

Keywords